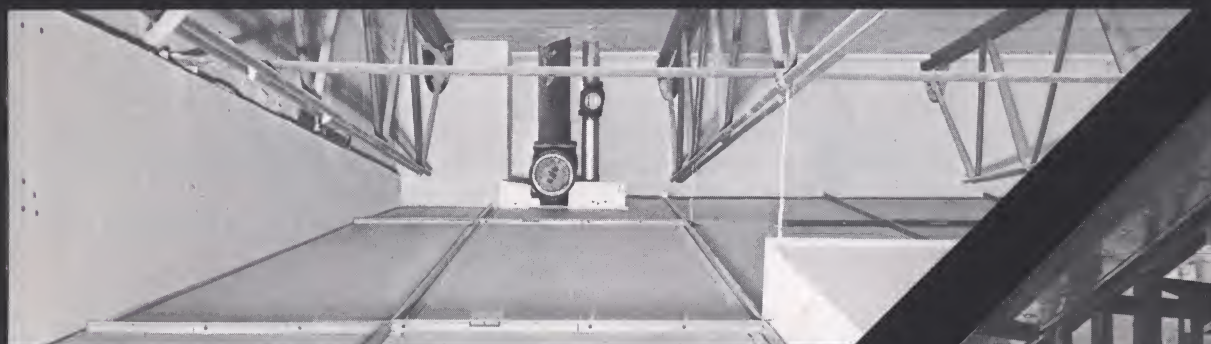


construction selector

partitions & walls
ceilings & floors
demountable partitions
roof assemblies

This construction selector summarizes the many effective systems that can be constructed with United States Gypsum quality-tested building products. Complete technical information, organized for efficiency of use, is presented *according to the end result desired by the architect*. It serves as a general guide for initial comparison and selection of systems and as an index to the various system and product folders in this series providing more complete data.

9.5/Ua



UNITED STATES GYPSUM

Contents

U.S.G. technical information

This 24-page Selector is the first element, and the key reference index, in the U.S.G. Architectural Technical Literature series. Following is the sequence of other folders comprising the complete series. Included are Section Numbers for folders located in Sweet's 1976 Architectural File; those marked "O" appear elsewhere in Sweet's files. The numeral before each division title indicates the UCI Uniform System division classification. Copies of all folders listed are available through U.S.G. sales offices or by mail (in Sweet's, see Literature Directory following this Selector).

The System Folders and Building Product Catalogs are arranged in numerical sequence, as listed below. The first numeral in the title number is the appropriate division number (two digits for two-digit division numbers) so that folders are easily filed. All folders are new 1976 editions except those marked (†) which were new in 1974 or 1975 and not supplied with replacement literature.

Folder description	Sweet's Sec. No.
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#3 Decks, Floors

SA-305	Gypsum Roof Systems	3.4
SA-306	Metal Edge Gypsum Roof Plank System	
SA-309	Gypsum Floor Plank Systems	

#4 Masonry

†SA-405	Gypsum Tile Partition Systems	
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#5 Grating, Exp. Metals

†SA-505	GRATE-X* Gratings	O
†SA-506	GRIP STRUT* Gratings	O

#7 Insulation, Roofing

SA-705	Building & Acoustical Insulation	7.14
†SA-710	Asphalt Roofing Products (western region only)	

#8 Curtain Walls, Doors & Frames

KMD-S	KEWANEE Doors & Frames	8.2
SA-805	Exterior Curtain Walls	8.14

Folder description	Sweet's Sec. No.
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#9 Acoustical Treatment

SA-905	Sound Control Ceilings	9.1
SA-907	CDI Environmental Ceilings	9.1

#9 Lath, Plaster

SA-912	Veneer Plaster-Noncombustible Partitions/Ceilings	9.5
SA-913	Wood-Framed Veneer Plaster Partitions/Ceilings	
†SA-915	TRUSSTEEL* Studs-Gypsum Lath Partitions	
SA-917	Plasters, Bases & Accessories	9.5

#9 Gypsum Drywall

SA-922	Cavity Shaft Wall Partitions	9.5
SA-923	Metal-Framed Gypsum Drywall Partitions/Ceilings	9.5
SA-924	Wood-Framed Gypsum Drywall Partitions/Ceilings/Separation Walls	
SA-925	Wood-Framed Resilient Gypsum Drywall Partitions/Ceilings (1)	9.5
SA-927	Gypsum Panels & Accessories	9.5
†SA-928	TEXTONE* Vinyl Gypsum Panels	9.12

#9 Paints, Coatings

SA-933	Paint Products	9.5
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#10 Demountable Partitions

SA-1020	ULTRAWALL* Movable	10.1
SA-1030	Drywall Demountable	
SA-1040	VAUGHAN WALLS† Drywall	10.1
SA-1070	ACCURATE Toilet Partitions(1)	10.7

#15 Mechanical

†SA-1510	GLOBE STRUT* Channel Framing	O
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(1) Available only as insert in Sweet's.

Index products and systems

References listed are *principal* source of information
in U.S.G. Architectural Technical Literature series.
Repetition or additional data may occur in other folders.

9.5/Ua

product or system	folder reference	product or system	folder reference	product or system	folder reference
A					
Accessories, structural & trim.....	SA-917, SA-927				
Acoustical space units.....	SA-905				
Acoustical tile, panels.....	SA-905				
Adhesives, drywall.....	SA-927				
Air-distributing ceilings, grids.....	SA-905, SA-907				
Aluminum trim.....	SA-928, SA-1020, SA-1030, SA-1040				
Area Separation Walls.....	SA-924				
Asbestos board.....	SA-305, SA-905				
Asphalt roofing.....	SA-710				
ASTM Specs.....	page 23, SA-100				
B					
Back-blocking system.....	SA-924				
Block filler.....	SA-933				
Blowing wool.....	SA-705				
Building insulation.....	SA-705				
Built-up roofing.....	SA-710				
C					
Caged beam construction.....	SA-912, SA-923				
Ceiling board, metal accessories.....	SA-905				
Ceiling grid systems.....	SA-905, SA-907				
Ceiling heat components.....	SA-917, SA-927				
Ceiling heat systems.....	SA-905, SA-907				
Ceiling texture finishes.....	SA-933				
Channel framing.....	SA-1510				
Channels, furring & lathing.....	SA-917, SA-927				
Channels, resilient.....	SA-917, SA-927				
Chase walls.....	SA-405, SA-912, SA-915, SA-922, SA-923, SA-1040				
Coatings, fire-retardant.....	SA-933				
Coatings, masonry, metal & industrial.....	SA-933				
Column fireprfg.....	SA-405, SA-705, SA-923				
Compartments, toilet & shower.....	SA-1070				
Concrete finishing compound.....	SA-917, SA-927				
Concrete inserts.....	SA-1510				
Control joints.....	SA-917, SA-927				
Corner, casing beads.....	SA-917, SA-927				
Corner reinforcement.....	SA-917, SA-927				
Curtain wall insulation.....	SA-705				
Curtain walls.....	SA-805				
D					
Door frames.....	KMD-S, SA-1020, SA-1030, SA-1040				
Doors, steel, fire-rated.....	KMD-S				
Drywall ceilings.....	SA-923, SA-924, SA-925				
Drywall fireproofing.....	SA-923				
Drywall furring systems.....	SA-405, SA-923				
Drywall partitions, laminated.....	SA-922, SA-923, SA-924, SA-1040				
Drywall partitions, metal-framed.....	SA-922, SA-923, SA-924, SA-1020, SA-1030, SA-1040				
Drywall partitions, wood-framed.....	SA-924, SA-925				
E					
Environmental ceilings.....	SA-907				
Epoxy coatings.....	SA-933				
Exterior ceilings.....	SA-805, SA-905, SA-924				
F					
Federal Specs.....	page 23, SA-100				
Finishing lime.....	SA-917				
Fireproofing, mineral felt.....	SA-705				
Fire-rated doors.....	KMD-S				
Fire-retardant coatings.....	SA-933				
Floating angle construction.....	SA-913, SA-924				
Floor underlayment board.....	SA-309, SA-927				
Floor underlayment compound.....	SA-309				
Flooring, gypsum plank.....	SA-309				
Flooring, open steel.....	SA-505, SA-506				
Foil-back gypsum panels, lath.....	SA-917, SA-927				
Formboard, gypsum roof decks.....	SA-305				
Frames, door.....	KMD-S, SA-1020, SA-1030, SA-1040				
Framing, stick system.....	KMD-S				
G					
Gauging plasters.....	SA-917				
Grating, expanded metal.....	SA-505				
Grating, reticulated metal.....	SA-506				
Gypsum concrete roof deck.....	SA-305				
Gypsum coreboard.....	SA-927				
Gypsum drainage slope fill.....	SA-305				
Gypsum floor plank.....	SA-309				
Gypsum lath ceilings.....	SA-912				
Gypsum lath partitions.....	SA-405, SA-912, SA-915, SA-922				
Gypsum liner panels.....	SA-927				
Gypsum panels.....	SA-927, SA-928				
Gypsum partition tile.....	SA-917				
Gypsum plaster base.....	SA-917				
Gypsum roof plank.....	SA-305				
Gypsum tile fireproofing.....	SA-405				
Gypsum tile partitions.....	SA-405				
I					
Insulating blankets, mats.....	SA-705				
Insulating furring.....	SA-912, SA-923				
Insulating gypsum panels, lath.....	SA-917, SA-927				
Integrated environmental ceilings.....	SA-907				
J					
Joint treatment.....	SA-927				
L					
Lathing accessories.....	SA-917				
Lathing clips.....	SA-917				
Light fixture protection.....	SA-905				
M					
Masonry partitions.....	SA-405				
Metal doors & frames.....	KMD-S				
Metal lath & accessories.....	SA-917				
Metal stud partitions.....	SA-912, SA-915, SA-922, SA-923, SA-1020, SA-1030, SA-1040				
Metal studs.....	SA-917, SA-927				
Metal toilet compartments.....	SA-1070				
Metal trim.....	SA-917, SA-927				
Mouldings, drywall.....	SA-927, SA-928				
Movable partitions.....	SA-1020, SA-1030, SA-1040				
P					
Paint products.....	SA-933				
Plaster bases.....	SA-917				
Plaster ceilings.....	SA-912, SA-913				
Plaster furring systems.....	SA-405, SA-912, SA-915				
Plaster partitions, metal-framed.....	SA-912, SA-915, SA-922				
Plaster partitions, wood-framed.....	SA-913				
Plastering lime.....	SA-917				
Plasters—basecoat, finish.....	SA-917				
Plastic trim.....	SA-917, SA-927, SA-928, SA-1030				
Pouring wool.....	SA-705				
Prefinished gypsum panels.....	SA-928				
Primers & undercoat.....	SA-933				
R					
Radiant heat ceiling components.....	SA-917, SA-927				
Resilient ceilings.....	SA-913, SA-924, SA-925				
Resilient partitions.....	SA-405, SA-913, SA-915, SA-922, SA-924, SA-925				
Roofing, shingles & built-up.....	SA-710				
S					
Safing insulation.....	SA-705				
Screens, toilet compartment.....	SA-1070				
Screws, gypsum board.....	SA-917, SA-927				
Sealer, spray compound.....	SA-933				
Seismic roof construction.....	SA-305				
Semi-solid partitions.....	SA-1040				
Separation walls.....	SA-924				
Shaft wall partitions.....	SA-922				
Sheathing, gypsum.....	SA-927				
Sound absorbers.....	SA-905				
Sound attenuation blankets.....	SA-705				
Sound deadening board.....	SA-927				
Sound underlayment board.....	SA-309, SA-927				
Space units, acoustical.....	SA-905				
Stains, wood.....	SA-933				
Stair treads.....	SA-505, SA-506				
Steel studs.....	SA-917, SA-927				
Stucco.....	SA-805, SA-917				
Sub-purlins, roof deck.....	SA-305				
T					
Tape, reinforcing.....	SA-917, SA-927				
Texture paint finishes.....	SA-933				
Trim accessories.....	SA-917, SA-927				
V					
Varnishes.....	SA-933				
Veneer plaster systems.....	SA-805, SA-912, SA-913, SA-915, SA-922				
Vent shaft construction.....	SA-405, SA-922				
Vinyl-surfaced gypsum panels.....	SA-928				
W					
Wallboard & accessories.....	SA-927				
Wallcovering, vinyl.....	SA-928				
Wood-frame partitions, ceilings.....	SA-913, SA-924, SA-925				
Z					
Z-spline suspension systems.....	SA-905				

How to use this selector

description of sections

This folder is divided into six sections—A to F—covering the categories indicated below. Within each section are listed brief analyses of major variations of each system, as documented by fire or sound tests, federal specifications or ASTM designations. They are arranged sequentially according to fire ratings—the criterion that most often governs selection.

These analyses are organized to locate the criteria desired at a glance. In Section A, covering fixed and demountable partitions, all information appears under six column headings:

STC rating		physical data construction detail	description & test no.	comments	folder reference
11-f	16-f				

In section B—ceiling systems—headings are revised to show STC and IIC sound ratings. In sections C, D and E—roof assemblies, fireproofing and exterior walls—certain of these columns are not applicable and are omitted.

The analyses applicable to each system, as listed in the first five sections here, are repeated in the individual folder covering that system, indicated by number in the "Folder Reference" column. Full information, details and specifications on the selected constructions also are available in the folders. See contents, page 2, for folder locations.

a partitions—pages 5 to 11—include solid and laminated without studs, metal and wood-framed, fixed and demountable—in plaster and lath, drywall and gypsum tile.

b ceilings—pages 12 to 18—include suspended, furred and direct-attachment types, employing plaster and lath, drywall, and mineral fiber tile or panel surfaces with companion floor or roof construction. Air distribution and integrated environmental systems also are offered.

c roof assemblies—page 19—listed are poured gypsum decks, and the prefabricated gypsum plank type, both available with integral ceilings.

d structural fireproofing—pages 19 to 21—shows basic methods of protecting columns and beams with lath and plaster, gypsum tile and plaster, and gypsum drywall.

e exterior walls and furring—page 22—compares methods of furring exterior walls, including veneer plaster and drywall furring systems, and exterior curtain wall assemblies.

f product catalogs—listed and indexed on page 23—present complete data on components and accessories used in U.S.G. drywall and plaster construction systems. Other subjects: insulation, paint, sound control ceiling products, asphalt roofing, gratings and channel framing, steel doors and frames, metal toilet compartments and screens.

Federal specification and ASTM designation qualifications of U.S.G. products are listed on page 23.

abbreviations



In the test analyses following, the abbreviation "est" indicates *estimated*; the abbreviation N/A indicates *not applicable* or *not available*. Other abbreviations are classified by columns where they appear:

description and comments

acoust	acoustical	ht	height
alt	alternate	ins	insulating or insulation
alum	aluminum	lamin	laminated
appl	applied	lim	limiting
att	attached	max	maximum
atten	attenuation	met	metal
betw	between	min	mineral or minimum
bd	board	mov	movable
blks	blankets	nom	nominal
cem	cement	noncomb	noncombustible
chan	channel	o.c.	on center
clg	ceiling	opp	opposite
col	column	oz	ounce
com	common	partn	partition
compd	compound	perim	perimeter
conc	concrete	pl	plaster
constr	construction	plywd	plywood
contin	continuous	prot	protected or protection
corebd	coreboard	qtr	quarter
corrug	corrugated	recom	recommended
cr	cold rolled	reg	regular
ctd	coated	reinf	reinforcement
dbl	double	resil	resilient
dead	deadening	rf	roof
distr	distribution	run	runner(s)
dm	diamond mesh	sep	separate
ea	each	separ	separated
exp	exposed	sf	self furring
fed spec	federal specifications	spec	special
fin	finish or finished	stag	staggered
fireprfg	fireproofing	stl	steel
fixt	fixture	subflr	subfloor
flr	floor	susp	suspended or suspension
formbd	formboard	syst	system
freq	frequency	thickn	thickness
fur	furring	unexp	unexposed
ga	gauge	unfin	unfinished
galv	galvanized	vert	vertically
hex	hexagonal	wallbd	wallboard
hol	hollow	wd	wood
ho riz	horizontally	wf	weight (lbs./sq. ft.)
hr	hour		

Plaster mixes show plaster content by weight in lbs., aggregates by volume in cu. ft.

In details, color background designates materials indicated below:

	Sound-deadening material, or columns.
	Resilient or furring channels.

test no.

noncomb	noncombustible	MLA	Metal Lath Association
Des	Design	NBFU	Natl. Bd. Fire Underwriters
GA	Gypsum Association	ASTM	Amer. Soc. Testing Materials
IBI	Insulation Board Institute	USG	United States Gypsum

The recognized laboratories which performed the tests are noted by abbreviation as follows:

Fire (f)	Sound (s)
BMS—National Bureau of Standards	NBS—National Bureau of Standards
UL—Underwriters Laboratories, Inc.	TL—Riverbank Acoustical Laboratories
OSU—Ohio State University	G & H—Geiger & Hamme
FPRI—Fire Protection Research Institute	CK—Cedar Knolls Acoust. Laboratories
U of C—University of California	WEAL—Western Electro-Acoust. Lab.
	BBN—Bolt, Beranek and Newman
	KSO—Kenward S. Oliphant
	WL—Wyle Laboratories

sound rating

STC	sound transmission class	IIC	impact insulation class
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selector guide to sound-rated partitions⁽¹⁾

STC range	55-60	50-54	45-49	40-44	35-39
drywall assemblies	1, 10, 14, 20, 21, 27, 44, 59	12, 13, 14, 18, 19, 20, 24, 27, 43, 45, 46, 60, 62, 63	14, 16, 17, 18, 22, 28, 46, 47, 48, 52, 54, 55, 58, 59, 60, 63, 64, 65, 66, 68	46, 49, 54, 68, 69	17, 48, 50, 56, 57, 61, 64
plaster assemblies	4	5, 6, 30, 31, 32, 34, 39, 42	31, 34, 35, 36, 37, 39	2, 7, 38	35

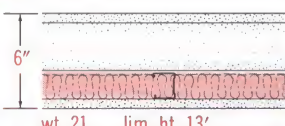
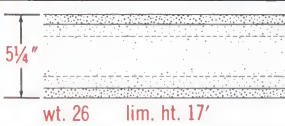
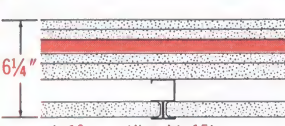
(1) Assemblies identified by numbers in outside margin, pp. 5 to 11.

9.5/Ua

STC rating	physical data construction detail	description & test no.	comments	folder reference
11-f	16-f			

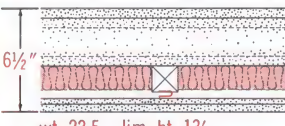
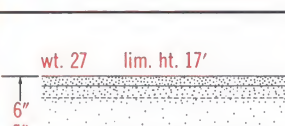
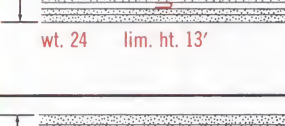
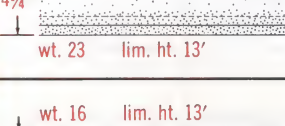
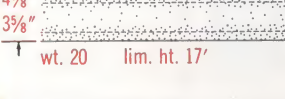

4-hour rated partitions

VARIOUS ASSEMBLIES

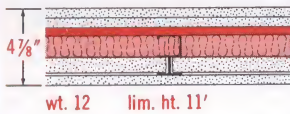
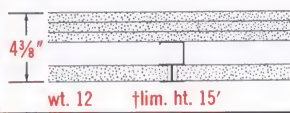
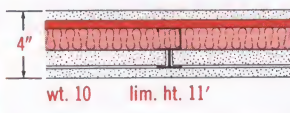
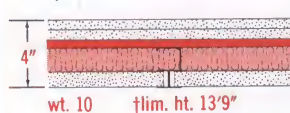
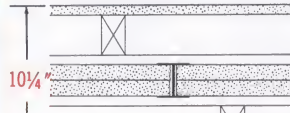
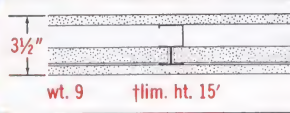
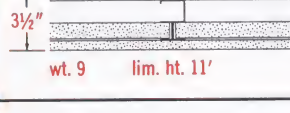
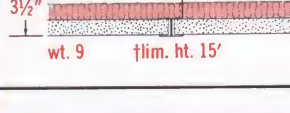
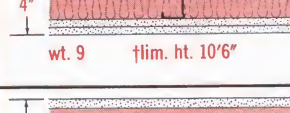

56		Gypsum Tile & Drywall— $\frac{5}{8}$ " SHEETROCK FIRECODE "C" gypsum panels—3" solid PYROBAR— $1\frac{1}{2}$ " USG met studs 24" o.c. one side— $1\frac{1}{2}$ " THERMAFIBER sound atten blkts betw studs—panels appl vert & screw att to studs—panels strip lamin 16" o.c. to tile opp side—perim caulked—joints fin—est(f)—TL-72-225 (s)	Excellent sound control for party walls. Extends drywall use to masonry construction	1 SA-405
42		Gypsum Tile & Plaster—4" hol PYROBAR tile— $\frac{5}{8}$ " 100:3 gypsum sand plaster—T-118-35&36-OSU (f)—NBS-305 F44 (s)	Fire rating also applies to 6" hol PYROBAR tile plastered one side only—T-26-1-OSU (f)	2 SA-405
N/A		Cavity Shaft Wall Gypsum Drywall—2 layers $\frac{5}{8}$ " SHEETROCK FIRECODE "C" gypsum panels face side—1" USG shaft wall liner panels set betw USG stl C-H studs 24" o.c.—1" liner panels & $\frac{5}{8}$ " gypsum panel core screw att to studs—horiz USG met fur chan 24" o.c.—face side panels screw att to fur chan—panels appl vert with joints stag—joints fin—est (f)	Estimated fire rating also applies with IMPERIAL FIRECODE "C" Base and veneer plaster surface	3 SA-922

3-hour rated partitions

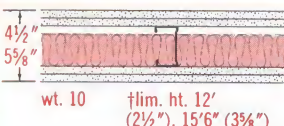
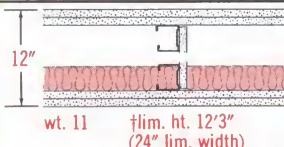
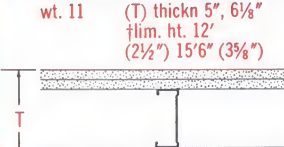

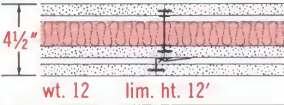
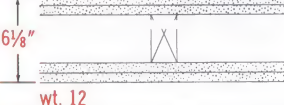
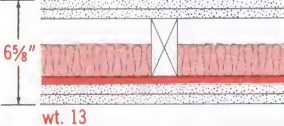
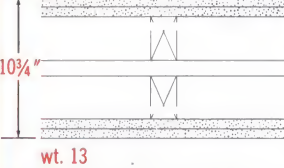
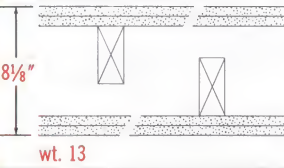

PLASTERED MASONRY ASSEMBLIES

55(1) 51(2)		Gypsum Tile & Plaster—3" hol PYROBAR—2x2 wd fur 16" o.c. vert— $1\frac{1}{2}$ " THERMAFIBER sound atten blkts betw fur—R-5 resil clips att to wd fur— $\frac{3}{8}$ " ROCKLATH pl base— $\frac{1}{2}$ " gypsum sand plaster one side & opp side $\frac{5}{8}$ " direct—perimeter caulked—est (f) —(1) USG-123-FT-G&H (s)—(2) Field Test—KSO-1090072-f(s)	Excellent sound & fire resistance. No outlets in 123-FT test; two caulked outlets in field test	4 SA-405
50(1) 47(2)		Gypsum Tile & Plaster—4" hol PYROBAR—R-5 resil clips— $\frac{3}{8}$ " ROCKLATH pl base— $\frac{1}{2}$ " gypsum sand plaster one side & opp side $\frac{5}{8}$ " direct—perimeter caulked—est (f) —(1) USG-110-FT-G&H (s)—(2) Field Test KSO-1090072-e (s)	Good attenuation. No outlets in 110-FT; two caulked outlets in field test	5 SA-405
52		Gypsum Tile & Plaster—3" hol PYROBAR—R-5 resil clips— $\frac{3}{8}$ " ROCKLATH pl base— $\frac{1}{2}$ " gypsum sand plaster one side & opp side $\frac{5}{8}$ " direct—est (f) TL-60-127 (s)	Excellent fire resistance reduces sound leaks & flanking paths	6 SA-405
40		Gypsum Tile & Plaster—3" hol PYROBAR— $\frac{5}{8}$ " 100:3 gypsum sand plaster—T-26-5-OSU (f)—NBS-309 (s)	Fire rating also applies to 3" solid PYROBAR, unplastered—T26-3-OSU (f)	7 SA-405
N/A		Gypsum Tile & Plaster—3" hol PYROBAR— $\frac{5}{8}$ " 100:3 gypsum sand plaster one side only—T-1315-OSU (f)	Ideal for chase walls, vent & elevator shafts	8 SA-405
N/A		Gypsum Tile & Plaster—4" hol PYROBAR tile— $\frac{5}{8}$ " 100:3 gypsum sand plaster one side only—T-118-29&30-OSU (f)		9 SA-405

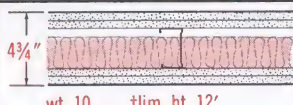
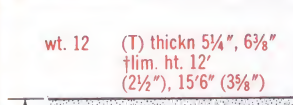
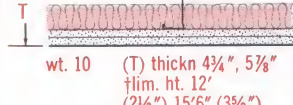
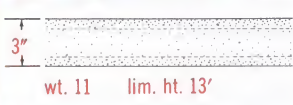
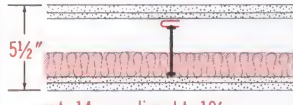




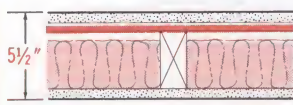
† Based on load of 5 psf; deflection limited to L/240. See System Folder for additional limiting height details.

STC rating		physical data construction detail		description & test no.		comments	folder reference
11-f	16-f						
3-hour rated partitions							
DRYWALL METAL-FRAMED ASSEMBLIES							
	57			Cavity Area Separation Wall— $\frac{5}{8}$ " SHEETROCK W/R FIRECODE "C" gypsum panels—1" USG gypsum liner panels set betw USG stl C-H studs 24" o.c.—RC-1 chan 24" o.c. screw att to side opp liner panels— $\frac{1}{2}$ " THERMAFIBER sound atten blkts—single layer panels one side appl vert & screw att—2 layers opp side screw att to chan—base layer appl horiz—face layer appl vert—joints fin—perim caulked—est (f)—BBN-730622 (s)			SA-924
N/A				Cavity Shaft Wall Gypsum Drywall—3 layers $\frac{5}{8}$ " SHEETROCK FIRECODE "C" gypsum panels one side—1" USG shaft wall liner panels set betw USG stl C-H studs 24" o.c.—panels screw att to side opp liner panels with joints stag—base & face layers appl vert—mid layer appl horiz—joints fin—est (f)	Estimated fire rating also applies with IMPERIAL FIRECODE "C" Base and veneer plaster surface		SA-922
2-hour rated partitions							
DRYWALL METAL-FRAMED ASSEMBLIES							
	50			Cavity Area Separation Wall— $\frac{1}{2}$ " SHEETROCK W/R FIRECODE "C" gypsum panels—1" USG gypsum liner panels set betw USG stl C-H studs 24" o.c.—RC-1 chan 24" o.c. screw att to side opp liner panels— $\frac{1}{2}$ " THERMAFIBER sound atten blkts—single layer panels ea side appl vert & screw att—joints stag on opp sides & fin—perim caulked—est(f)—BBN-750411(s)			SA-924
	51			Cavity Shaft Wall Gypsum Drywall—2 layers $\frac{1}{2}$ " SHEETROCK FIRECODE "C" gypsum panels one side—1" USG shaft wall liner panels set betw USG stl C-H studs 24" o.c.—RC-1 chan spaced 24" o.c.— $\frac{1}{2}$ " THERMAFIBER sound atten blkts—panels & RC-1 chan screw att to side opp liner panels—base layer appl horiz—face layer appl vert—joints fin—est (f)—BBN-750412 (s)	Estimated fire rating also applies with IMPERIAL FIRECODE "C" Base and veneer plaster surface		SA-922
45(1) 54(1) 57(3)				Solid Area Separation Wall— $\frac{1}{2}$ " SHEETROCK FIRECODE "C" gypsum panels—two 1" gypsum liner panels set betw USG stl H-studs 24" o.c.—2x3 16" o.c. ea side on 2x3 plates 1" from liner panels—gypsum panels att with $\frac{1}{4}$ " Type W screws 12" o.c.—joints stag & fin—perim caulked—est (f)—(1) BBN-730104 (s)—(2) BBN-730103 (s)—(3) BBN-730102 (s)	BBN-730103 based on 2" THERMAFIBER sound atten. blkts. in one cavity. BBN-730102 based on 2" insul. blkts. in both cavities		SA-924
N/A				Cavity Shaft Wall Gypsum Drywall— $\frac{1}{2}$ " SHEETROCK FIRECODE "C" gypsum panels—1" USG shaft wall liner panels set betw USG stl C-H studs 24" o.c.—single layer panels ea side appl vert & screw att—joints stag on opp sides & fin—U of C 6-23-75 (f)	Fire rating also applies with IMPERIAL Base and veneer plaster surface		SA-922
	47			Cavity Area Separation Wall— $\frac{5}{8}$ " SHEETROCK W/R FIRECODE "C" gypsum panels—1" USG gypsum liner panels set betw USG stl C-H studs 24" o.c.—single layer panels ea side appl vert & screw att—joints stag on opp side & fin—perim caulked—U of C 6-23-75 (f)—BBN-750706 (s)	BBN-750706 based on 1" THERMAFIBER sound atten. blkts. in cavity		SA-924
	47(1) 39(2)			Cavity Shaft Wall Gypsum Drywall—2 layers $\frac{1}{2}$ " SHEETROCK FIRECODE "C" gypsum panels one side—1" USG shaft wall liner panels set betw USG stl C-H studs 24" o.c.—panels appl vert to side opp liner panels & screw att—joints fin—U of C 3-4-75 (f)—U of C 3-5-75 (f)—(1) BBN-750706 (s)—(2) USG-750302(s)	Fire rating also applies with IMPERIAL Base and veneer plaster surface. BBN-750706 based on same constr. with 1" blankets in cavity		SA-922
	52(1) 45(2)			Stl Stud—2 layers $\frac{1}{2}$ " SHEETROCK FIRECODE "C" gypsum panels ea side—2" USG studs 24" o.c.—panels appl vert & screw att— $\frac{1}{2}$ " THERMAFIBER sound atten blkts—perim caulked—est (f)—(1) TL-69-159 (s)—(2) TL-69-155 (s)	TL-69-155 based on same construction without blankets		SA-923
52(1) 50(2)	52(2)			Stl Stud— $\frac{3}{8}$ " SHEETROCK FIRECODE gypsum panels— $\frac{3}{8}$ " USG studs 24" o.c.—2 layers—base layer $\frac{1}{2}$ " USG min fiber sound dead bd ea side screw att—face layer panels lamin & screw att—joints stag & fin—perimeter caulked—est (f)—(1) USG-103-F-T-G&H (s)—(2) Field Test KSO-109006-b (s)			SA-923

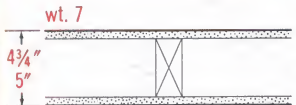

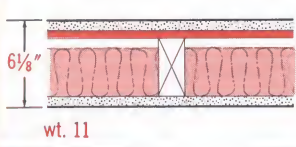

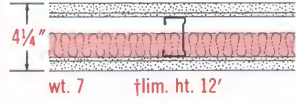
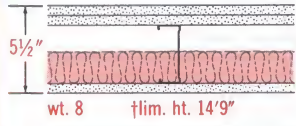


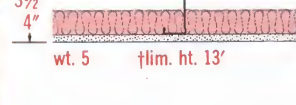

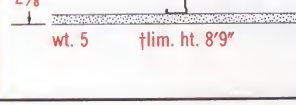

† Based on load of 5 psf; deflection limited to L/240. See System Folder for additional limiting height details.

STC rating		physical data construction detail	description & test no.	comments	folder reference	
11-f	16-f					
55(1) 54(2)	54(1) 53(3)		STl Stud—2 layers 1/2" SHEETROCK FIRECODE "C" gypsum panels ea side—2 1/2" or 3 3/4" USG studs 24" o.c.—1", 1 1/2" or 2" THERMAFIBER sound atten blkts stapled—panels appl vert & joints stag—base layer screw att—face layer strip lamin or screw att—joints fin—perimeter caulked—UL Des U412 (f)—(1) Field Test KSO-109006-a (s)—(2) USG-114-FT-G&H (s)—(3) CK-654-40 (s)	Best value of drywall metal stud party walls in 50-54 STC range. CK-654-40 based on screw-attached face layer	SA-923	20
55			STl Stud Chase Wall—2 layers 1/2" SHEETROCK FIRECODE "C" gypsum panels ea side—1 3/4" USG studs 24" o.c. in 2 rows spaced 6 3/4" apart—1/2" gypsum panel gussets spanning chase att to studs at qtr points—panels appl vert & screw att—1 1/2" THERMAFIBER sound atten blkts one side—joints stag & fin—perimeter caulked—est (f)—USG-134-FT-G&H (s)		SA-923	21
46			STl Stud—2 layers 5/8" SHEETROCK FIRECODE gypsum panels plain or vinyl faced vert appl ea side—2 1/2" or 3 3/4" USG studs 24" o.c.—base layer screw att—face layer lamin or screw att—joints fin or unfin—perimeter caulked—UL Des U411 (f)—TL-60-113 (s)	Excellent for corridors	SA-923	22
N/A			STl Stud—2 layers 1/2" SHEETROCK FIRECODE "C" gypsum panels—1 3/4" USG studs 24" o.c.—2 layers ea side vert appl & screw att—joints fin—U of C-15-65 (f)	Most economical 2-hour metal stud drywall partition	SA-923	23
DRYWALL DEMOUNTABLE ASSEMBLY						
50			Mov ULTRAWALL Partn—concealed "H" studs 24" o.c.—1 1/2" THERMAFIBER sound atten blkts—3/4" x 24" bevel edge panels one side—double layer opp side with 3/4" Z-Splines betw layers—joints unfin—perim caulked—painted—UL Des U416 (f)—TL-70-198 (s)	Ideal choice for maximum sound isolation	SA-1020	24
DRYWALL WOOD-FRAMED ASSEMBLIES						
N/A			Wd Stud—2 layers 5/8" SHEETROCK FIRECODE or W/R FIRECODE "C" gypsum panels—2x4 16" o.c.—base layer 6d nails 6" o.c.—face layer lamin or nailed to base—joints fin—UL Des U301 (f)	Basic 2-hour partition construction	SA-924	25
N/A			Wd Stud—2 layers 5/8" SHEETROCK FIRECODE "C" gypsum panels ea side—2x4 16" o.c.—2" THERMAFIBER sound atten blkts—RC-1 chan one side spaced 24" o.c.—resil side screw att—opp side nail att—both base layers appl vert and face layers appl horiz—base layers perim caulked—joints fin—T-4799-OSU (f)		SA-924 SA-925	26
56(1) 51(2)			Wd Stud—2 layers 5/8" SHEETROCK FIRECODE "C" gypsum panels—2 rows 2x4 16" o.c. on sep plates 1" apart—base layer att with 6d ctd nails 16" o.c.—face layer att with 7d ctd nails 7" o.c.—perim caulked—joints fin—est (f)—(1) USG-710120 (s)—(2) TL-69-214 (s)	USG-710120 based on 3 1/2" thick blankets in one cavity	SA-924	27
47			Stag Wd Stud—2 layers 5/8" SHEETROCK FIRECODE "C" gypsum panels—2x4 16" o.c. on 2x6 com plate—base layer att with 6d ctd nails 6" o.c.—face layer att with 8d ctd nails 8" o.c.—perim caulked—joints fin—est (f)—TL-69-211 (s)		SA-924	28
PLASTERED WOOD-FRAMED ASSEMBLY						
N/A			Wd Stud—2 layers 5/8" IMPERIAL FIRECODE "C" gypsum base & 1/4" veneer plaster both sides—2x4 16" o.c.—base layer 6d nails 6" o.c.—face layer lamin or nailed to base—joints taped—UL Des U301 (f)	Basic 2-hour partition construction	SA-913	29

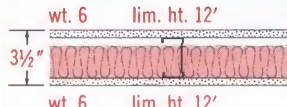
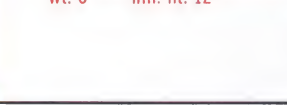


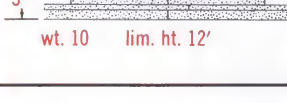
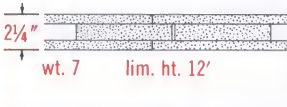
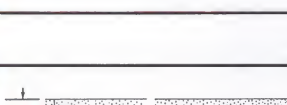
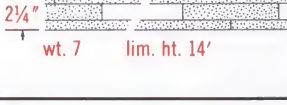

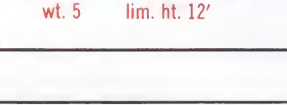
† Based on load of 5 psf; deflection limited to L/240. See System Folder for additional limiting height details.

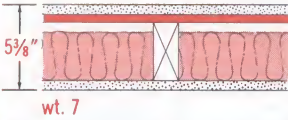
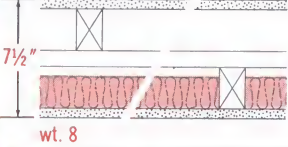
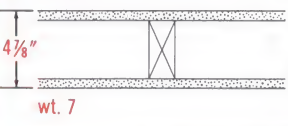
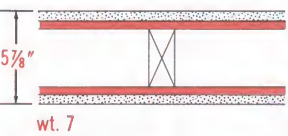
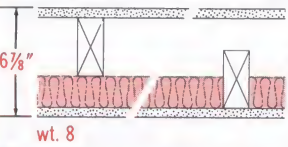
STC rating		physical data construction detail	description & test no.	comments	folder reference
11-f	16-f				
2-hour rated partitions					
PLASTERED METAL-FRAMED ASSEMBLIES (continued)					
	53	 <p>4 3/4" wt. 10 †lim. ht. 12'</p>	Stl Stud—2 layers 1/2" IMPERIAL FIRECODE gypsum base & veneer plaster—2 1/2" USG studs 24" o.c.—both layers base appl vert, joints stag & screw att—1/16" IMPERIAL plaster—perimeter caulked—UL Des U303 (f)—CK 654-66 (s)	CK-654-66 based on assembly with 1" THERMAFIBER sound atten. blankets	SA-912
	51(1) 47(2)	 <p>wt. 12 (T) thickn 5 1/4", 6 3/8" †lim. ht. 12' (2 1/2"), 15'6" (3 3/8")</p>	Stl Stud—2 layers 5/8" IMPERIAL FIRECODE gypsum base & veneer plaster—2 1/2" or 3 3/8" USG studs 24" o.c.—base layer screw att—face layer lamin or screw att—joints taped—1/16" IMPERIAL plaster—UL Des U411 (f)—(1) TL-75-73 (s)—(2) TL-75-70 (s)	Sound tests based on 2 1/2" studs. TL-75-70 based on same constr. with 1 1/2" THERMAFIBER blankets	SA-912
52(1) 48(2)	49(2)	 <p>wt. 10 (T) thickn 4 3/4", 5 5/8" †lim. ht. 12' (2 1/2") 15'6" (3 3/8")</p>	Stl Stud—2 layers 1/2" IMPERIAL FIRECODE "C" gypsum base & veneer plaster—2 1/2" or 3 3/8" USG studs 24" o.c.—2" THERMAFIBER sound atten blkts stapled one side—base appl vert & joints stag—base layer screw att—face layer strip lamin or screw att—joints taped—1/16" IMPERIAL plaster—perimeter caulked—UL Des U412 (f)—(1) USG-127-FT-G&H (s)—(2) Field Test KSO-1090072-a (s)	Sound test based on strip-laminated face layer. Field test includes 2 caulked outlets each side	SA-912
1-hour rated partitions					
PLASTERED MASONRY ASSEMBLY					
N/A		 <p>3" wt. 11 lim. ht. 13'</p>	Gypsum Tile—3" hol PYROBAR—unplastered—BMS-92 table 24 (f)	For col. fireprfg., short runs & vent shafts only	SA-405
PLASTERED METAL-FRAMED ASSEMBLIES					
49(1) 47(3)	52(2) 46(3)	 <p>5 1/2" wt. 14 lim. ht. 10'</p>	Stl Stud—Resil Gypsum Lath & Plaster—3 3/4" TRUSSTEE Studs 16" o.c.—1 1/2" THERMAFIBER sound atten blkts—TR-1 clips one side & TL-1 clips opp side—3/8" ROCKLATH—1/2" 100:2-100:2 gypsum sand plaster—perimeter caulked—est (f)—(1) USG-125-FT-G&H (s)—(2) CK-664-38 (s)—(3) Field Test KSO-1090072-b (s)	2 caulked outlets on each side in field test	SA-915
	48(1) 36(2)	 <p>4 5/8" wt. 7 lim. ht. 9'6"</p>	Stl Stud—Resil 1/2" IMPERIAL FIRECODE "C" gypsum base & veneer plaster—2 1/2" TRUSSTEE studs 24" o.c.—RC-1 chan both sides spaced 16" o.c. att with 3/4" Type T pan head screws—base att with 1" Type S screws—1/16" IMPERIAL plaster—joints taped—T-4831-OSU (f)—(1) TL-69-278 (s)—(2) TL-69-288 (s)	TL-69-278 based on assembly with 1 1/2" THERMAFIBER sound attenuation blankets	SA-915
	46	 <p>4 3/4" wt. 12 lim. ht. 10'</p>	Stl Stud—Resil Gypsum Lath & Plaster—2 1/2" TRUSSTEE studs 16" o.c.—TR-1 clips one side & TL-1 clips opp side—3/8" ROCKLATH—1/2" 100:2 gypsum sand plaster—perimeter caulked—est (f)—TL-69-14 (s)		SA-915
	45	 <p>4 3/4" wt. 8 †lim. ht. 14'9"</p>	Stl Stud—1 layer 1/2" IMPERIAL FIRECODE "C" gypsum base & veneer plaster—3 3/8" USG studs—base screw att—1 1/2" THERMAFIBER sound atten blkts stapled one side—joints stag & taped—1/16" IMPERIAL plaster—perimeter caulked—T-3124-OSU (f)—CK-664-1 (s)	Fire test based on assembly with 2 1/2" studs, without blkts. Stud spacing at 16" o.c. recommended	SA-912
	41	 <p>4 1/2" wt. 13 lim. ht. 15'</p>	Stl Stud—Gypsum Lath & Plaster—2 1/2" TRUSSTEE studs 16" o.c.—3/8" ROCKLATH—1/2" 100:2-100:2 gypsum sand plaster—est (f)—TL-58-7 (s)	Record of proven performance	SA-915
PLASTERED WOOD-FRAMED ASSEMBLIES					
50(2)	49(1)	 <p>5 1/2" wt. 8</p>	WdStud—Resil 5/8" IMPERIAL FIRECODE "C" gypsum base & veneer plaster—2x4 16" o.c.—3" THERMAFIBER ins blkts—RC-1 chan one side spaced 24" o.c.—base att with 1" Type S screws—opp side att direct with 1 1/4" Type W screws—1/16" veneer plaster both sides—perimeter caulked—UL Des U311 (f)—(1) CK-664-4 (s)—(2) USG-111-FT G&H (s)	Good sound isolation combined with highly abrasion-resistant surface. CK-664-4 based on 1/2" thick base	SA-913

†Based on load of 5 psf and studs 16" o.c.; deflection limited to L/240. See System Folder for additional limiting height details.

STC rating		physical data construction detail	description & test no.	comments	folder reference
11-f	16-f				
N/A			Wd Stud— $\frac{1}{2}$ " IMPERIAL FIRECODE "C" gypsum base att direct & veneer plaster— 2×4 16" o.c.—base nailed 7" o.c. 6d nails— $\frac{1}{16}$ " veneer plaster—joints taped—U of C 10-27-64 (f)	Excellent surface hardness and abrasion resistance	SA-913
N/A			Wd Stud— $\frac{5}{8}$ " IMPERIAL FIRECODE "C" gypsum base & veneer plaster— 2×4 16" o.c.—base nailed 7" o.c. $1\frac{1}{2}$ " cem ctd nails— $\frac{1}{16}$ " veneer plaster both sides—joints taped—UL Des U305 (f)		SA-913
	53		Wd Stud—Resil $\frac{5}{8}$ " IMPERIAL gypsum base & veneer plaster— 2×4 16" o.c.—2 layer base one side screw att & lamin—single layer opp side screw att to RC-1 chan spaced 24" o.c.—3" THERMAFIBER ins blkts— $\frac{1}{16}$ " veneer plaster both sides—perimeter caulked—est (f)—CK-654-38 (s)		SA-913
DRYWALL METAL-FRAMED ASSEMBLIES					
	53		Stl Stud—2 layers $\frac{1}{2}$ " SHEETROCK gypsum panels ea side— $1\frac{1}{2}$ " USG studs 24" o.c.—panels appl vert & screw att—joints stag & fin—perimeter caulked—U of C 9-21-64 (f)—CK-654-40 (s)	Sound test based on $2\frac{1}{2}$ " studs & $1\frac{1}{2}$ " sound atten. blankets in cavity	SA-923
	55(1) 53(2)		Stl Stud— $\frac{5}{8}$ " SHEETROCK FIRECODE gypsum panels— $2\frac{1}{2}$ " USG studs 24" o.c.— $1\frac{1}{2}$ " THERMAFIBER sound atten blkts—2 layer—base layer $\frac{1}{4}$ " SHEETROCK panels screw att— $\frac{5}{8}$ " face layer screw att—joints fin—perimeter caulked—est (f)—(1) CK-684-14 (s)—(2) CK-684-13 (s)	CK-684-13 based on $\frac{1}{2}$ " thick panels	SA-923
	50		Stl Stud— $\frac{5}{8}$ " SHEETROCK FIRECODE "C" gypsum panels— $3\frac{3}{4}$ " USG studs 24" o.c.—single layer panels one side appl vert & screw att—2" THERMAFIBER sound atten blkts one side—2 layers opp side—panels appl vert & screw att—joints stag & fin—perim caulked—est (f)—USG-241-ST-G&H (s)		SA-923
	50(1) 49(2) 41(3) 51(4)		Stl Stud— $\frac{1}{2}$ " SHEETROCK FIRECODE "C" gypsum panels— $2\frac{1}{2}$ " USG studs 24" o.c.—single layer panels one side appl vert & screw att— $1\frac{1}{2}$ " THERMAFIBER sound atten blkts one side—2 layers opp side—panels appl vert & screw att—joints stag & fin—perimeter caulked—est (f)—(1) BBN-711005 (s)—(2) TL-69-153 (s)—(3) TL-69-148 (s)—(4) BBN-700726 (s)	BBN-711005 based on lamin. face layer. TL-69-148 based on same construction without blkts. BBN-70026 based on $2\frac{3}{8}$ " thick foil-faced blankets	SA-923
	47(1) 45(2)		Stl Stud— $\frac{1}{2}$ " SHEETROCK FIRECODE "C" gypsum panels— $2\frac{1}{2}$ " USG studs 24" o.c.—single layer panels ea side appl vert & screw att— $1\frac{1}{2}$ " THERMAFIBER sound atten blkts one side—joints fin—perimeter caulked—T-3362-OSU (f)—(1) TL-65-158 (s)—(2) TL-69-42 (s)	TL-65-158 based on $3\frac{3}{8}$ " studs & 1" blankets	SA-923
	45(1) 39(2)		Stl Stud— $\frac{1}{2}$ " SHEETROCK FIRECODE "C" gypsum panels—3" USG studs 24" o.c.—single layer panels vert appl & screw att— $1\frac{1}{2}$ " THERMAFIBER sound atten blkts—joints fin—perimeter caulked—est (f)—(1) BBN-710310 (s)—(2) BBN-710305 (s)	BBN-710305 based on same construction without blankets	SA-923
	42		Stl Stud— $\frac{5}{8}$ " SHEETROCK FIRECODE gypsum panels— $3\frac{3}{4}$ " USG studs 24" o.c.—single layer panels vert or horiz appl & screw att 12" o.c.—joints fin—perimeter caulked—T-1174-OSU (f)—GA-WP-45-1 hr (f)—USG-17-FT-G&H (s)	Basic 1-hr. corridor—fire tests based on screws 8" o.c. at vert. joints—WP-45 based on horiz. application	SA-923
	38		Stl Stud— $\frac{5}{8}$ " SHEETROCK FIRECODE gypsum panels— $1\frac{1}{2}$ " USG studs 24" o.c.—single layer panels vert appl & screw att 12" o.c.—joints fin—perimeter caulked—U of C 7-31-62 (f) TL-64-29 (s)	Min. 1-hr. drywall partn.—fire test based on screws 8" o.c. at vertical joints	SA-923
N/A			Cavity Shaft Wall Gypsum Drywall— $\frac{5}{8}$ " SHEETROCK FIRECODE "C" gypsum panels one side—1" USG shaft wall liner panels set betw USG stl C-H studs 24" o.c.—panels appl to side opp liner panels & screw att—joints fin—U of C 3-6-75 (f)—U of C 3-7-75 (f)	Fire rating also applies with IMPERIAL FIRECODE "C" Base and veneer plaster surface	SA-922

† Based on load of 5 psf; deflection limited to L/240. See System Folder for additional limiting height details.

STC rating		physical data construction detail	description & test no.	comments	folder reference
11-f	16-f				
1-hour rated partitions					
DRYWALL DEMOUNTABLE ASSEMBLIES					
49		 <p>wt. 6 lim. ht. 12'</p> <p>3 1/2"</p>	Mov Demountable Partn—1/2" vinyl faced TEXTONE FIRECODE "C" gypsum panels & battens screw att—2 1/2" USG met studs 24" o.c.—2" THERMAFIBER sound atten blkts—UL Des U406 (f)—TL-63-127 (s)	Low cost—only metal stud movable partn. with high sound & fire rating	SA-1030
N/A		 <p>wt. 6 lim. ht. 12'</p> <p>3 1/2"</p>	Mov Demountable Partn—1/2" SHEETROCK FIRECODE "C" gypsum panels & battens 48" o.c.—panels screw att at joints & adhesively att to alt studs—2 1/2" USG met studs 24" o.c.—2" THERMAFIBER sound atten blkts—U of C 7-27-70 (f)		SA-1030
42(1) 47(2)		 <p>wt. 7 lim. ht. 12'</p> <p>3 3/8"</p>	Mov ULTRAWALL Partn—concealed "H" studs 24" or 30" o.c.—3/4"x24" or 30" bevel edge ULTRAWALL gypsum panels—joints unfin—U of C 8-18-67 (f)—U of C 7-23-69 (f)—(1)BBN-701008 (s)—(2)BBN-701216 (s)	Variety of style combinations. BBN-701216 based on same construction with 1" sound atten. blankets	SA-1020
45		 <p>wt. 10 lim. ht. 12'</p> <p>3"</p>	Mov VAUGHAN WALLS pre-chased sound wall—spec 5/8" USG gypsum face panels lamin to 3/8" gypsum base layer panels—1/2" gypsum core strips placed to form panel joints—2 rows 1 1/2" thick—alum trim—U of C 8-12-68 (f)—WEAL 67-131 (s)	Tenant wall with excellent space-saving features	SA-1040
37		 <p>wt. 7 lim. ht. 12'</p> <p>2 1/4"</p>	Mov VAUGHAN WALLS pre-chased partn—spec 5/8" USG gypsum face panels lamin to spec 1" gypsum core strips placed to form panel joints—U of C 11-1-66 (f)—WL-73-59160 (s)	Aluminum ceiling and floor runners. Excellent corridor or tenant partition	SA-1040
DRYWALL LAMINATED ASSEMBLIES					
37		 <p>wt. 7 lim. ht. 14'</p> <p>2 1/4"</p>	VAUGHAN WALLS chase wall fixed partn—5/8" SHEETROCK gypsum face panels lamin to spec 1" gypsum core strips at vert joints—U of C 8-6-71 (f)—WL-73-59160 (s)		SA-1040
45		 <p>wt. 5 lim. ht. 12'</p> <p>3 3/4"</p>	VAUGHAN WALLS sound wall fixed partn—two rows 5/8" SHEETROCK gypsum face panels lamin & stapled to spec 1" gypsum core strips at vert joints—neoprene isolators & 1" insul blkts in cavity—est (f)—WEAL 72-148 (s)		SA-1040
DRYWALL WOOD-FRAMED ASSEMBLIES					
59(1) 49(2)		 <p>wt. 12</p> <p>6 1/8"</p>	Wd Stud—2 layers 1/2" SHEETROCK FIRECODE "C" gypsum panels ea side—2x4 16" o.c.—3" THERMAFIBER ins blkts—RC-1 chan one side spaced 24" o.c.—resil side screw att—opp side nail att—both base layers appl vert and face layers appl horiz—base layers perim caulked—joints fin—est (f)—(1) TL-67-239 (s)—(2) TL-67-212 (s)	Excellent sound control for party walls. TL-67-212 based on same construction without blankets	SA-924 SA-925
53(1) 45(2)		 <p>wt. 8</p> <p>5 1/8"</p>	Wd Stud—1/2" SHEETROCK FIRECODE "C" gypsum panels—2x4 16" o.c.—2 layer—base layer 3/4" SHEETROCK gypsum panels appl vert with 4d ctd nails—1/2" panels face layer strip lamin—joints stag & fin—perimeter caulked—est (f)—(1) USG-221-ST-G&H (s)—(2) TL-69-52 (s)	221-ST based on 5/8" lamin. face layers & 1 1/2" THERMAFIBER sound atten. blankets	SA-924
38		 <p>wt. 7</p> <p>5 1/8"</p>	Wd Stud—2 layers 3/8" SHEETROCK gypsum panels lamin & nailed—2x4 16" o.c.—joints fin—T-118-48-OSU (f)—TL-57-14 (s)		SA-924

STC rating		physical data construction detail	description & test no.	comments	folder reference
11-f	16-f				
52			Wd Stud—Resil 5/8" SHEETROCK FIRECODE "C" gypsum panels—2x4 16" or 24" o.c.—3" THERMAFIBER ins blkts—RC-1 chan one side spaced 24" o.c.—panels att with 1" type S screws—opp side direct att with 1 1/4" Type W screws—joints fin—perimeter caulked—UL Des U311 (f)—USG-33-FT-G&H (s)	Best value of wood stud drywall party walls	SA-924 SA-925
51(1) 49(2)			Stag Wd Stud—5/8" SHEETROCK FIRECODE gypsum panels—2x3 16" o.c.—2x3 plates 1" apart—panels att with 1 1/4" Type W screws 16" o.c.—2" THERMAFIBER sound atten blkts one side—perim caulked—est (f)—(1) USG-106-FT-G&H (s)—(2) USG-155-FT-G&H (s)	Best value in 50 STC range for this type of party wall. 155-FT based on 2x6 plate	SA-924
34(2)	46(1)		Wd Stud—5/8" SHEETROCK FIRECODE or W/R FIRECODE "C" gypsum panels—2x4 16" or 24" o.c.—panels nailed 7" o.c.—1 1/8" cem ctd nails—joints fin—perim caulked—UL Des U305 (f)—UL Des U314 (f)—(1) BBN-700725 (s)—(2) USG-30-FT-G&H (s)	UL Des U314 based on 24" stud spacing. BBN test includes 3" insul. blankets. USG-30-FT based on 16" stud spacing	SA-924
45			Wd Stud—Resil 5/8" SHEETROCK FIRECODE gypsum panels—2x4 16" o.c.—RC-1 chan both sides spaced horiz 24" o.c. att with 6d nails—panels att with 1" Type S screws—joints fin—perimeter caulked—T-1396-OSU (f)—TL-60-52 (s)	Fully resilient 1-hr. fire-rated party wall	SA-924 SA-925
45			Stag Wd Stud—5/8" SHEETROCK FIRECODE "C" gypsum panels—2x4 16" o.c. on 2x6 com plate—panels att with 6d ctd nails 7" o.c.—2" THERMAFIBER sound atten blkts one side—perim caulked—joints fin—est (f)—TL-69-213 (s)		SA-924


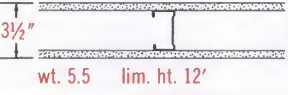
45-min. rated partitions

DRYWALL WOOD-FRAMED ASSEMBLY

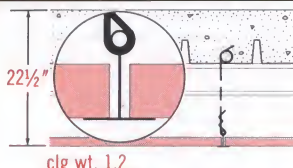
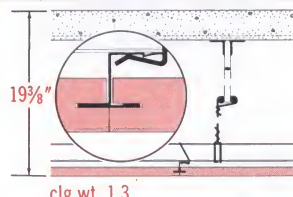
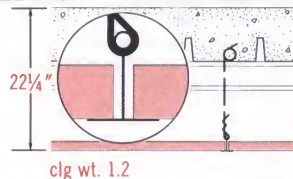
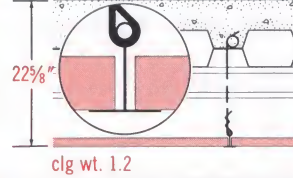
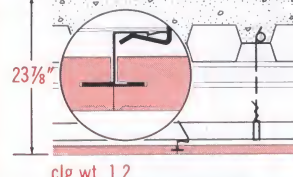
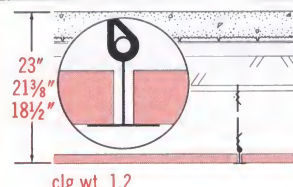
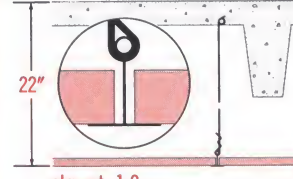
N/A			Wd Stud—1/2" SHEETROCK FIRECODE "C" gypsum panels—2x4 16" o.c.—panels nailed 7" o.c.—1 1/8" cem ctd nails—joints fin—UL Des U317 (f)		SA-924
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other partitions

DRYWALL DEMOUNTABLE ASSEMBLIES

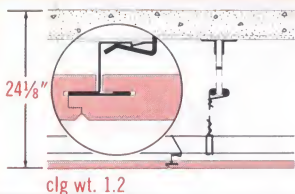
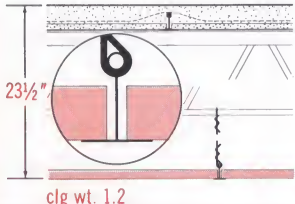
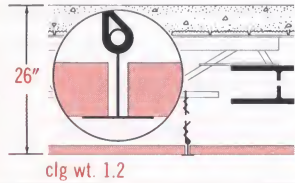
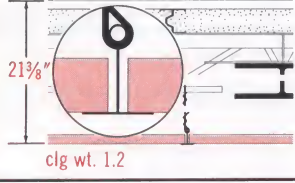
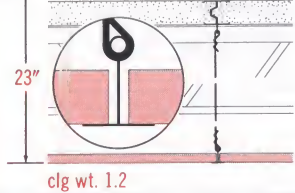
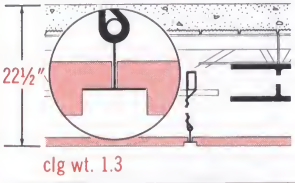
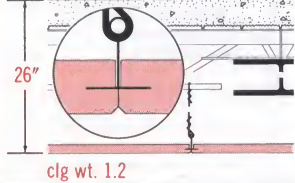
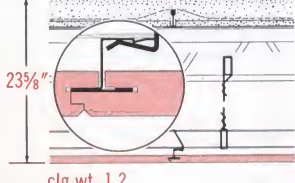
48(1) 40(2)			Mov ULTRAWALL Partn—concealed "T" studs both sides 24" o.c.—3/4"x24" bevel edge ULTRAWALL gypsum panels—1 1/2" THERMAFIBER sound atten blkts—joints stag & unfin—perim caulked—N/A (f)—(1) TL-70-251 (s)—(2) TL-70-252 (s)	TL-70-252 based on same construction without blankets	SA-1020
42			Mov Demountable Partn—1/2" vinyl faced TEXTONE FIRECODE gypsum panels & battens screw att—2 1/2" USG met studs 24" o.c.—N/A (f)—TL-63-126 (s)	Same as No. 52 without blkts.—note STC difference	SA-1030

(For fire and sound test data on other partition assemblies, see U.S.G. Technical Bulletins: CS-6 Metal-Framed Metal Lath and Plaster Systems; DW-56 Solid, Semi-Solid, Vent Shaft Partitions.)

STC rating	physical data construction detail	description & test no.		comments	folder reference
acoustical and air distributing ceilings					
4-hour rated ceilings					
40 to 44†		MINERAL FIBER SURFACES			
		AURATONE FIRECODE 5/8"x24"x48" acoust clg panels in Susp Exp Grid Syst—clg interrupted—light fix prot by 1 1/4" THERMAFIBER min wool bd—2 1/2" conc on cellular stl flr—UL Des D206 (f)		Includes 4-hr. unrestrained beam. See Sound Control Ceilings Folder for STC values of various patterns	SA-905
3-hour rated ceilings					
40 to 44		MINERAL FIBER SURFACES			
		ACOUSTONE 180 3/4"x12"x12" min acoust tile on Concealed Z-Spline Syst—2 1/2" conc deck over bar joist—UL Des G017 (f)			SA-905
40 to 44†		MINERAL FIBER SURFACES			
		AURATONE FIRECODE 5/8"x24"x24" or 24"x48" acoust clg panels in Susp Exp Grid Syst—clg interrupted—light fix prot by 1 1/4" THERMAFIBER min wool bd—2 1/4" conc on cellular stl flr over stl beam—UL Des D207 (f)		Includes 3-hr. unrestrained beam. See Sound Control Ceilings Folder for STC values of various patterns	SA-905
40 to 44†		MINERAL FIBER SURFACES			
		AURATONE FIRECODE 5/8"x24"x48" acoust clg panels in Susp Exp Grid Syst—clg interrupted—light fix prot by 1 1/4" THERMAFIBER min wool bd—2 1/2" conc on cellular stl flr—UL Des A207 (f)		Includes 4-hr. unrestrained beam. See Sound Control Ceilings Folder for STC values of various patterns	SA-905
40 to 44†		MINERAL FIBER SURFACES			
		AURATONE FIRECODE 3/4"x12"x12" acoust clg tile on Concealed Z-Spline Syst—clg interrupted—light fix prot by 1 1/4" THERMAFIBER min wool bd—2 1/2" conc on cellular stl flr—UL Des A009 (f)		Includes 4-hr. unrestrained beam. See Sound Control Ceilings Folder for STC values of various patterns	SA-905
2-hour rated ceilings					
40 to 44†		MINERAL FIBER SURFACES			
		AURATONE FIRECODE 5/8"x24"x48" or 24"x24" acoust clg panels in Susp Exp Grid Syst—clg interrupted—light fix prot by 1 1/4" THERMAFIBER min wool bd—2 1/2" conc deck on riblath over bar joist—UL Des G211 (f)—UL Des G227 (f)—UL Des G251 (f)		UL Des G227 is Shadow Line System and includes 4-hr. unrestrained beam. UL Des G251 includes only 5/8" x 24" x 48" panels	SA-905
40 to 44†		MINERAL FIBER SURFACES			
		AURATONE FIRECODE 5/8"x24"x48" or 24"x24" acoust clg panels in Susp Exp Grid Syst—clg interrupted—light fix prot by 1 1/4" THERMAFIBER min wool bd—2" prestressed conc units with 6" deep stems 48" o.c.—UL Des J202 (f)			SA-905

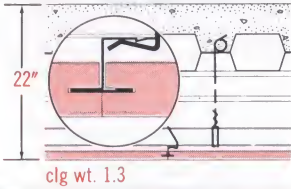
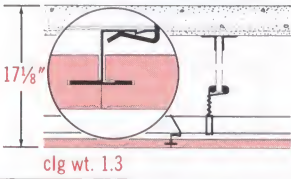
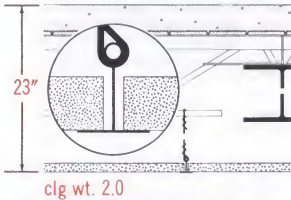
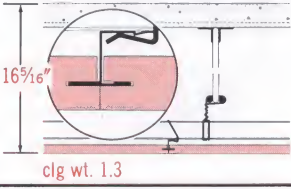
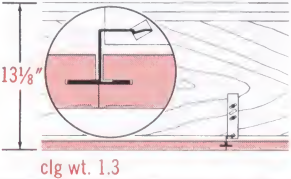
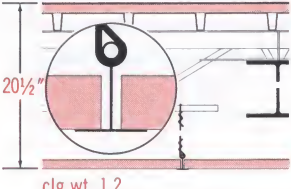
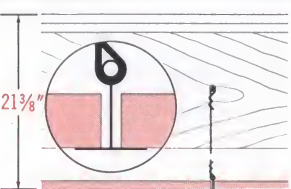
†Based on 11-freq.

‡AIRSON Air Distribution Products may be substituted.

STC rating	physical data construction detail	description & test no.	comments	folder reference
40 to 44†	 clg wt. 1.2	AURATONE FIRECODE 5/8"x12"x12" acoust clg tile on Concealed Z-Spline Syst—clg interrupted—light fixt prot by 1 1/4" min wool bd—2 1/2" conc deck on riblath over bar joist†—UL Des G019 (f)	See Sound Control Ceilings Folder for STC values of various patterns	SA-905
40 to 44†	 clg wt. 1.2	AURATONE FIRECODE 5/8"x24"x48" acoust clg panels in Susp Exp Grid Syst—clg interrupted—light fixt prot by 1 1/4" THERMAFIBER min wool bd—2" PYROFILL gypsum conc roof deck with 1/2" SHEETROCK formbd over bar joist†—UL Des P207 (f)	See Sound Control Ceilings Folder for STC values of various patterns	SA-305 SA-905
40 to 44†	 clg wt. 1.2	AURATONE FIRECODE 5/8"x24"x24" to 30"x60" or 20"x60" acoust clg panels in Susp Exp Grid Syst—clg interrupted—light fixt prot by 1 1/4" THERMAFIBER min wool bd—2 1/2" conc deck on riblath over bar joist†—UL Des G231 (f)	Broad fire rating approval permits up to 30"x60" panels. Includes 3-hr. unrestrained beam	SA-905
49	 clg wt. 1.2	USG Floor Plank and AURATONE FIRECODE Ceiling Panels—5/8"x24"x48" or 24"x24" acoust clg panels in Susp Exp Grid Syst—clg interrupted—light fixt prot by 1 1/4" THERMAFIBER min wool bd—2" USG gypsum flr plank welded to bar joists 48" o.c.—3/4" MASTICAL underlayment compd over plank—UL Des G230 (f)—USG-700612 (s)	Includes 2-hr. unrestrained beam. Fire rating also applies with FLO-FILL underlayment compd. or with skim coat of compd. over plank joints	SA-309 SA-905
40 to 44†	 clg wt. 1.2	AURATONE FIRECODE 5/8"x24"x48" acoust clg panels in Susp Exp Grid Syst—clg interrupted—light fixt prot by 1 1/4" THERMAFIBER min wool bd—2" USG met edge gypsum plank over bar joist—UL Des P213 (f)	See Sound Control Ceilings Folder for STC values of various patterns	SA-305 SA-306 SA-905
35 to 39	 clg wt. 1.3	ACOUSTONE 120 3/4"x24"x24" min acoust tile on Exp Grid Syst—clg interrupted—light fixt prot by 1 1/4" THERMAFIBER min wool bd—2 1/2" conc deck on riblath over bar joist†—UL Des G228 (f)	Includes 2-hr. unrestrained beam	SA-905
40 to 44†	 clg wt. 1.2	AURATONE FIRECODE 5/8"x12"x12" to 24"x24" acoust clg tile on Concealed Accessible Grid Syst—clg interrupted—light fixt prot by 1 1/4" THERMAFIBER min wool bd—2 1/2" conc deck on riblath over bar joist†—UL Des G008 (f)	Includes 2-hr. unrestrained beam. See Sound Control Ceilings Folder for STC values of various patterns	SA-905
40 to 44†	 clg wt. 1.2	AURATONE FIRECODE 5/8"x12"x12" acoust clg tile on Concealed Z-Spline Syst—clg interrupted—light fixt prot by 1 1/4" THERMAFIBER min wool bd—2" THERMOFILL gypsum conc roof deck with 1/2" SHEETROCK formbd over bar joist†—UL Des P002 (f)	See Sound Control Ceilings Folder for STC values of various patterns	SA-305 SA-905

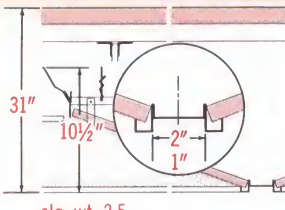
†Based on 11-freq.

‡AIRSON Air Distribution Products may be substituted.

STC rating	physical data construction detail	description & test no.		comments	folder reference
2-hour rated ceilings					
MINERAL FIBER SURFACES (continued)					
40 to 44		ACOUSTONE 120 3/4"x12"x12" min acoust tile on Concealed Z-Spline Syst—clg interrupted—light fixt prot by 1 1/4" THERMAFIBER min wool bd—2 1/2" conc deck on cellular stl flr†—UL Des A010 (f)		Includes 1 1/2-hr. unrestrained beam	SA-905
40 to 44		ACOUSTONE 120 3/4"x12"x12" min acoust tile on Concealed Z-Spline Syst—2 1/2" conc deck on riblath over bar joist—UL Des G018 (f)			SA-905
N/A		FIRECODE 1/2"x24"x24" Gypsum Panels on Susp Exp Grid Syst—clg interrupted—light fixt prot by 1 1/4" THERMAFIBER min wool bd—2 1/2" conc deck on riblath over bar joist—UL Des G222 (f)		Includes 2-hr. unrestrained beam	SA-905
1 1/2-hour rated ceilings					
MINERAL FIBER SURFACES					
30 to 34		ACOUSTONE 90 3/4"x12"x12" min acoust tile on Concealed Z-Spline Syst—2" conc deck on riblath over bar joist—UL Des G020 (f)			SA-905
1-hour rated ceilings					
MINERAL FIBER SURFACES					
30 to 34		ACOUSTONE 90 3/4"x12"x12" min acoust tile on Concealed Z-Spline Syst—1" nom plywd & MASTICAL underlayment compd or wd sub & fin floor over wd joist 16" o.c.—UL Des L003 (f)			SA-905
40 to 44†		AURATONE FIRECODE 5/8"x24"x48" acoust clg panels in Susp Exp Grid Syst—clg interrupted—light fixt prot by 1 1/4" THERMAFIBER min wool bd—1 1/2" stl roof deck & 1" noncomb insul over bar joist—UL Des P214 (f)		Includes 1-hr. unrestrained beam. See Sound Control Ceilings Folder for STC values of various patterns	SA-905
40 to 44†		AURATONE FIRECODE 5/8"x24"x48" or 24"x24" acoust clg panels in Susp Exp Grid Syst—clg interrupted—light fixt prot by 1 1/4" THERMAFIBER min wool bd—1" nom plywd & MASTICAL underlayment compd or wd sub & fin flr over 2x10 wd joist—UL Des L206 (f)		See Sound Control Ceilings Folder for STC values of various patterns	SA-905

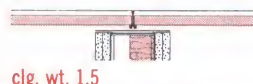

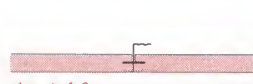




†Based on 11-freq.

‡AIRSON Air Distribution Products may be substituted.

STC rating	physical data construction detail	description & test no.	comments	folder reference
43		MOD V Ceiling System—AURATONE FIRECODE $\frac{5}{8}$ " acoust clg panels and 2"x4" light fixt on MOD Grid Syst—60"x60" module—1 $\frac{1}{2}$ " stl roof deck & 1 $\frac{1}{16}$ " noncomb insul over bar joist—UL Des P222(f)—USG-237-FT-G&H (s)	Vaulted integrated environmental ceiling continuous over partition. Sound atten. test based on grid system with 2" regress	SA-907 23

noncombustible ceilings

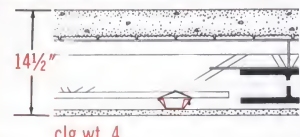
MINERAL FIBER SURFACES

40		DELTA Ceiling System—ACOUSTONE Foil-Backed Glacier $\frac{3}{4}$ "x24"x24" acoust clg panels in DELTA Grid Syst—clg contin over partn—ASTM E84 (f)—USG-240-FT-G&H (s)	Sound atten. test for integrated environmental ceiling	SA-907 24
40 to 44		ACOUSTONE "F" Foil-Backed $\frac{3}{4}$ "x12"x24" or 12"x36" min acoust tile on 1-Way Exp Grid Syst—ASTM E84(f)	One-way exposed grid system for accessibility	SA-905 25
40 to 44		ACOUSTONE Foil-Backed Fissured or Glacier $\frac{3}{4}$ "x12"x12" min acoust tile on concealed 100% Accessible direct-hung Susp Syst—ASTM E84(f)	Basic direct-hung concealed accessible system	SA-905 26
30 to 34		ACOUSTONE "F" $\frac{3}{4}$ "x12"x12" or 12"x24" min acoust tile on Concealed Z-Spline Syst†—ASTM E84 (f)	Basic concealed spline acoustical tile system; STC estimated	SA-905 27
40 to 44		AURATONE $\frac{5}{8}$ " or $\frac{3}{4}$ "x24"x24" or 24"x48" acoust clg panels in Susp Exposed Grid Syst†—ASTM E84 (f)	Basic noncombustible lay-in panels; NRC varies with pattern	SA-905 28
44(1) 48(2)		AURATONE $\frac{5}{8}$ "x24"x48" acoust clg panels in Susp ExpGridSyst—continoverpartn—1 $\frac{1}{2}$ " THERMAFIBER sound atten blkts over clg—ASTM E84 (f)—(1) USG-210-FT-G&H (s)—(2) USG-211-FT-G&H (s)	Test USG-211-FT includes double-layer blankets extending 4' both sides of partition	SA-905 29
N/A		AIRSON Grid Air Distr Syst—Exposed AIRFLO grid systems for noncomb acoust panels—adjustable air distr through grid itself—ASTM E84 (f)	Basic steel or alum. grid with unslotted panels	SA-905 30

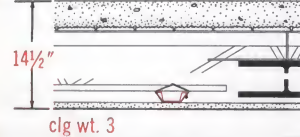
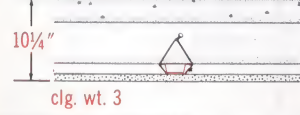
gypsum drywall and plaster ceilings

3-hour rated ceilings

PLASTERED ASSEMBLY

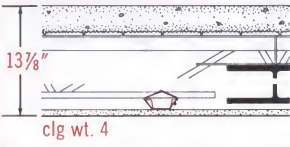
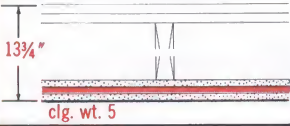

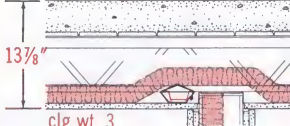
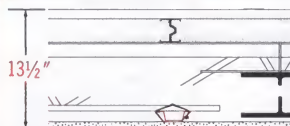
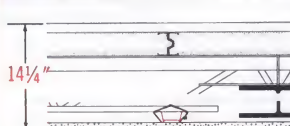
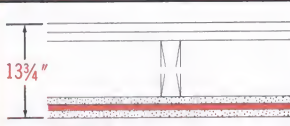
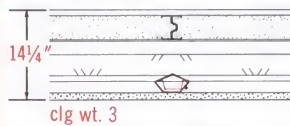
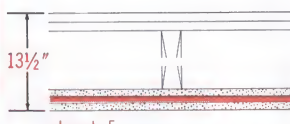
N/A		$\frac{5}{8}$ " IMPERIAL FIRECODE "C" gypsum base & veneer plaster ceiling—USG met fur chan 24" o.c.—base att with 1" Type S screws 12" o.c.—joints exp or taped— $\frac{1}{16}$ " IMPERIAL plaster—3" conc on riblath over bar joist—UL Des G512 (f)	Includes 3-hr. unrestrained beam. Spacing of furring channel at 16" o.c. recommended	SA-912 31
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GYPSUM DRYWALL SURFACES

N/A		$\frac{5}{8}$ " SHEETROCK FIRECODE "C" gypsum panels—USG met fur chan 24" o.c.—panels att with 1" Type S screws 12" o.c.—joints exp or fin—3" conc on riblath over bar joist—UL Des G512 (f)	Includes 3-hr. unrestrained beam	SA-923 32
N/A		$\frac{5}{8}$ " SHEETROCK FIRECODE "C" gypsum panels—USG met fur chan 24" o.c.—panels att with 1" Type S screws 12" o.c. in field and 8" o.c. at ends—joints fin—prestressed conc units with 6" deep stems 48" o.c.—UL Des J502 (f)—UL Des J503 (f)—UL Des J504 (f)	Rating based on 2 $\frac{3}{4}$ " thick reg. or 2 $\frac{1}{2}$ " lightwt. concrete slab	SA-923 33

†Based on 11-freq.

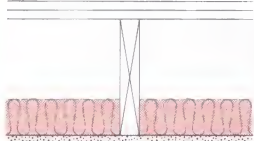
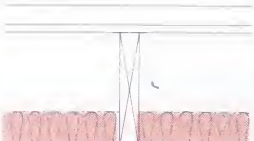
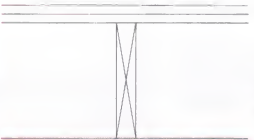
†AIRSON Air Distribution Products may be substituted.


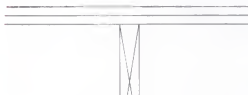
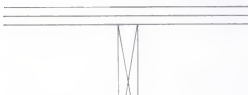
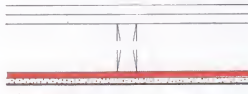

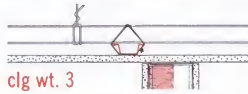
sound rating		physical data construction detail	description & test no.	comments	folder reference
STC	IIC				
2-hour rated ceilings					
PLASTERED ASSEMBLIES					
N/A			1/2" IMPERIAL FIRECODE "C" gypsum base & veneer plaster ceiling furred or susp—USG met fur chan—base att with screws 12" o.c.—joints taped—1/16" IMPERIAL plaster—2 1/2" conc on riblath or corrug stl deck over bar joist—UL Des G515 (f)	Includes 2-hr. unrestrained beam. Spacing of furring channel at 16" o.c. recommended	SA-912
50 est			Resil 2 layers 5/8" IMPERIAL FIRECODE "C" gypsum base & veneer plaster ceiling—1" nom wd sub & fin flr—2x10 wd joist 16" o.c.—RC-1 chan screw att over base layer—face layer screw att to chan 12" o.c.—1/16" veneer plaster—joints taped—UL Des L511 (f)		SA-913
GYPSUM DRYWALL SURFACES					
N/A			5/8" SHEETROCK FIRECODE "C" gypsum panels—USG met fur chan 24" o.c.—panels att with 1" Type S screws 12" o.c. in field and 8" o.c. at ends—joints fin—prestressed conc units with 6" deep stems 48" o.c.—UL Des J502 (f)—UL Des J503 (f)	Rating based on 2" thick reg. or lightwt. concrete slab	SA-923
54			1/2" SHEETROCK FIRECODE "C" gypsum panels—furred or susp—USG met fur chan 24" o.c.—panels att with 1" Type S screws 12" o.c.—joints exp or fin—2 1/2" conc on riblath or corrug stl deck over bar joist—UL Des G515 (f)—USG-189-FT-G&H (s)	Includes 2-hr. unrestrained beam. STC based on furred interrupted clg., 1 1/2" sound atten. blankets extendg. 4' beyond partn.	SA-923
51(1)	32(1) 61(2)		USG Floor Plank System—(1) 5/8" vinyl flr tile (2) 39-oz carpet & 40-oz pad—2" gypsum flr plank welded to bar joists 48" o.c.—skim-coat MASTICAL underlayment or DURABOND 90 compd over plank joints—USG met fur chan 24" o.c. wire-tied to joists—5/8" SHEETROCK FIRECODE "C" gypsum panels screw-att 12" o.c.—joints fin—UL Des G516 (f)—(1) BBN-720317(s)—(1) BBN-720316(s)—(2) BBN-720314(s)		SA-309 SA-923
54(1)	37(1) 64(2)		USG Floor Plank System—3/4" MASTICAL underlayment compd—(1) 5/8" vinyl flr tile (2) 39-oz carpet & 40-oz pad—2" USG gypsum flr plank welded to bar joists 48" o.c.—USG met fur chan 24" o.c. wire-tied to joists—5/8" SHEETROCK FIRECODE "C" gypsum panels screw-att 12" o.c.—joints fin—UL Des G516 (f)—(1) BBN-720506 (s)—(1) BBN-720507 (s)—(2) BBN-720509 (s)	Fire rating also applies with FLO-FILL underlayment compd; sound ratings are comparable	SA-309
50 est			Resil 2 layers 5/8" SHEETROCK FIRECODE "C" gypsum panel ceiling—1" nom wd sub & fin flr—2x10 wd joist 16" o.c.—RC-1 chan spaced 24" o.c. screw att over base layer panels—face layer screw att to chan 12" o.c.—joints fin—UL Des L511 (f)		SA-924 SA-925
N/A			5/8" SHEETROCK FIRECODE "C" gypsum panels—USG met fur chan 24" o.c.—panels att with Type S screws 12" o.c.—joints exp or fin—2" USG met edge gypsum plank over bar joist—UL Des P501 (f)		SA-305 SA-306
1 1/2-hr. rated ceilings					
GYPSUM DRYWALL SURFACES					
50 est			Resil 2 layers 1/2" SHEETROCK FIRECODE "C" gypsum panel ceiling—1" nom wd sub & fin flr—2x10 wd joist 16" o.c.—RC-1 chan spaced 24" o.c. screw att over base layer panels—face layer screw att to chan 12" o.c.—joints fin—UL Des L510 (f)	Fire rating also applies with IMPERIAL Gypsum Base and veneer plaster surface	SA-924

sound rating		physical data construction detail	description & test no.	comments	folder reference
STC	IIC				

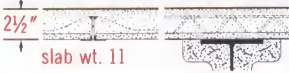
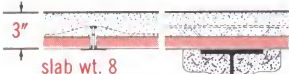
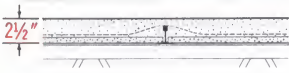
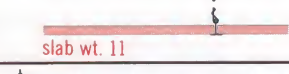
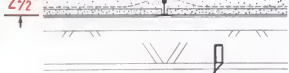
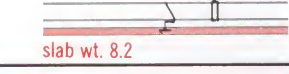

1-hour rated ceilings

GYPSUM DRYWALL SURFACES

41(1) 40(2)	32(1) 58(2)	 clg wt. 3	5/8" SHEETROCK gypsum panel ceiling—1" nom wd sub & fin flr—2x10 wd joist 16" o.c.—3" THERMAFIBER ins blkts betw joists—panels att with 6d nails 6" o.c.—joints fin—est (f)—(1) CK-6412-6 (s)—(2) CK-6412-5 (s)	In CK-6412-5 test, 44-oz. carpet & 40-oz. pad added atop flooring	SA-924	43
59(1)	47(1) 65(2)		Resil 1/2" SHEETROCK FIRECODE "C" gypsum panel ceiling—3/4" FLO-FILL underlayment compd—5/8" plywd subflr—(1) 1/2" vinyl flr tile (2) 66-oz carpet & 40-oz pad—2x10 wd joist 16" o.c.—3" THERMAFIBER ins blkts betw joists—RC-1 chan screw att to joists—panels att with 1" Type S screws—joints fin—(1) USG-740704 (s)—(1) USG-740703 (s)—(2) USG-740705 (s)		SA-924	44
55(1)	52(1) 64(2)	 clg wt. 3	Resil 1/2" SHEETROCK FIRECODE "C" gypsum panel ceiling—3/4" PYROROCK underlayment bd over 5/8" plywd subflr—(1) 1/2" vinyl flr tile (2) 66-oz carpet & 40-oz pad—2x10 wd joist 16" o.c.—3" THERMAFIBER ins blkts betw joists—RC-1 chan screw att to joists—panels att with 1" Type S screws—joints fin—(1) BBN-720503 (s)—(1) BBN-720502 (s)—(2) BBN-720501 (s)		SA-924	45
56	54		Resil 1/2" SHEETROCK gypsum panel ceiling—3/4" MASTICAL underlayment compd over 5/8" plywd subflr—2x10 wd joist 16" o.c.—3" THERMAFIBER ins blkts betw joists—RC-1 chan screw att to joists—panels att with 1" Type S screws—joints fin—est (f)—BBN-670601 & BBN-670602 (s)		SA-924 SA-925	46
N/A			Resil 5/8" SHEETROCK FIRECODE "C" gypsum panel ceiling—1 1/2" perlite-sand conc over 5/8" plywd subflr—2x10 wd joists 16" o.c.—3" glass fiber batts betw joists—RC-1 chan screw att to joists—panels att with 1" Type S screws—joints fin—UL Des L516 (f)		SA-924	47
54(1)	55(2)		Resil 1/2" SHEETROCK FIRECODE "C" gypsum panel ceiling—1" nom plywd & MASTICAL or FLO-FILL underlayment compd or wd sub & fin flr—2x10 wd joist 16" o.c.—RC-1 chan spaced 24" o.c.—panels att with 1" Type S screws—joints fin—UL Des L514 (f)—(1) BBN-740407 (s)—(2) BBN-740405 (s)	Sound ratings based on 3/4" FLO-FILL and 5/8" plywd subfloor; IIC with carpet & pad	SA-924 SA-925	48
47(1) 47(2)	39(1) 39(2)		Resil SHEETROCK gypsum panel ceiling—1 1/4" nom wd sub & fin flr—2x10 wd joist 16" o.c.—RC-1 chan screw att to joist—panels att with 1" Type S screws—joints fin—est (f)—(1) CK-6512-6 (s)—(2) CK-6412-10 (s)	CK-6512-6 based on 1/2" FIRECODE "C" panels; CK-6412-10 based on 5/8" reg. panels	SA-924 SA-925	49
47(1) 48(2)	67(1) 66(2)	 clg wt. 3	Resil SHEETROCK gypsum panel ceiling—1 1/4" nom wd sub & fin flr—44-oz carpet & 40-oz pad atop flr—2x10 wd joist 16" o.c.—RC-1 chan screw att to joists—panels att with 1" Type S screws—joints fin—est (f)—(1) CK-6512-7 (s)—(2) CK-6412-9 (s)	CK-6512-7 based on 1/2" FIRECODE "C" panels; CK-6412-9 based on 5/8" reg. SHEETROCK panels	SA-924 SA-925	50
51(1) 50(2)	46(1) 46(2)		Resil SHEETROCK gypsum panel ceiling—1 1/4" nom wd sub & fin flr—2x10 wd joist 16" o.c.—3" THERMAFIBER ins blkts betw joists—RC-1 chan screw att to joists—panels att with 1" Type S screws—joints fin—est (f)—(1) CK-6512-9 (s)—(2) CK-6412-3 (s)	CK-6512-9 based on 1/2" FIRECODE "C" panels; CK-6412-3 based on 5/8" reg. SHEETROCK panels	SA-924 SA-925	51
52(2) 51(2)	71(1) 70(2)		Resil SHEETROCK gypsum panel ceiling—1 1/4" nom wd sub & fin flr—44-oz carpet & 40-oz pad atop flr—2x10 wd joist 16" o.c.—3" THERMAFIBER ins blkts betw joists—RC-1 chan screw att to joists—panels att with 1" Type S screws—joints fin—est (f)—(1) CK-6512-8 (s)—(2) CK-6412-4 (s)	CK-6512-8 based on 1/2" FIRECODE "C" panels; CK-6412-4 based on 5/8" reg. panels	SA-924 SA-925	52
49(1)	45(1) 58(2)		Resil 5/8" SHEETROCK FIRECODE "C" gypsum panel ceiling—3/4" PYROROCK underlayment bd over 5/8" plywd subflr—(1) 1/2" vinyl flr tile (2) 66-oz carpet & 40-oz pad—2x10 wd joist 16" o.c.—RC-1 chan screw att to joists—panels att with 1" Type S screws—joints fin—UL Des L523 (f)—(1) USG-740307 (s)—(1) USG-740302 (s)—(2) USG-740308 (s)	Fire rating also applies with direct-attached gypsum panel ceiling. Sound ratings based on 1/2" thick gypsum panels	SA-924 SA-925	53



sound rating		physical data construction detail		description & test no.	comments	folder reference
STC	IIC					
1-hour rated ceilings						
GYPSUM DRYWALL SURFACES (continued)						
N/A			clg wt. 3	5/8" SHEETROCK FIRECODE gypsum panel ceiling—Amer Plywood Assn 2-4-1 flr 4x10 wd joist 48" o.c.—USG met fur chan spaced 24" o.c.—panels att with 1" Type S screws—joints fin—UL Des L508 (f)	Only 1-hr. residential drywall system based on 48" joist spacing	SA-924
48	35			1/2" SHEETROCK FIRECODE "C" gypsum panel ceiling—1/2" plywd & 3/4" MASTICAL or FLO-FILL underlayment compd over subflr—2x10 wd joist 16" o.c.—panels att with 5d cem ctd nails 6" o.c.—joints fin—UL Des L512 (f)—BBN-671007 & 671008 (s)	BBN-671007 & 671008 based on 1 1/4" thick MASTICAL floor underlayment	SA-924
38(1) 39(2)	32(1) 56(2)		clg wt. 3	5/8" SHEETROCK FIRECODE gypsum panel ceiling—1" nom wd sub & fin flr—2x10 wd joist 16" o.c.—panels att with 6d nails 6" o.c.—joints fin—UL Des L501 (f)—(1) CK-6412-7 (s)—(2) CK-6412-8 (s)	In CK-6412-8 test, 44-oz. carpet & 40-oz. pad added atop flooring	SA-924
36†				1/2" SHEETROCK FIRECODE "C" gypsum panel ceiling—1" nom wd sub & fin flr—2x10 wd joist 16" o.c.—panels att with 5d cem ctd nails 6" o.c.—joints fin—UL Des L512 (f)—NBS-77 P-716 (s)	Basic assembly—sound attenuation test	SA-924
PLASTERED ASSEMBLIES						
N/A			clg wt. 3	1/2" IMPERIAL FIRECODE "C" gypsum base & veneer plaster ceiling—wd joist 2x10 16" o.c.—1" nom wd sub & fin flr—base att with 5d nails 6" o.c.—1/16" veneer plaster—joints taped—UL Des L512 (f)	Fire rating also applies with 3/4" MASTICAL or FLO-FILL underlayment compound over plywood subfloor	SA-913
N/A				5/8" IMPERIAL FIRECODE gypsum base & veneer plaster ceiling—1" nom wd sub & fin flr—2x10 wd joist 16" o.c.—base att with 6d nails 6" o.c.—1/16" veneer plaster—joints taped—UL Des L501 (f)		SA-913
N/A			clg wt. 3	Resil 1/2" IMPERIAL FIRECODE "C" gypsum base & veneer plaster ceiling—wd joist 2x10 16" o.c.—1" nom wd sub & fin flr—RC-1 chan spaced 16" o.c. and at end joints—base att with Type S screws 12" o.c.—1/16" veneer plaster—joints taped—UL Des L514 (f)	Fire rating also applies with 3/4" MASTICAL or FLO-FILL underlayment compound over plywood subfloor	SA-913
N/A			clg wt. 3	5/8" IMPERIAL FIRECODE gypsum base & veneer plaster ceiling—Amer Plywood Assn 2-4-1 flr 4x10 wd joist 48" o.c.—USG met fur chan—base att with 6d nails 6" o.c.—1/16" veneer plaster—joints taped—UL Des L508 (f)	Only 1-hr. residential veneer plaster system based on 48" joist spacing	SA-913
noncombustible ceilings						
GYPSUM DRYWALL SURFACES						
45			clg wt. 3	5/8" SHEETROCK FIRECODE gypsum panels—1 1/2" cr chan 4" o.c.—USG met fur chan 24" o.c.—panels screw att 12" o.c.—joints fin—ASTM E84 (f)—USG-5-FT-G&H (s)	"Up and over" attenuation—suspension & ceiling membrane only	SA-923

†Based on 11-freq. (See "Roof Assemblies" section, right, for ceilings of finished formboards available as part of integral roof system. Also see U.S.G. Technical Bulletin CS-6 Metal-Framed Metal Lath and Plaster Systems, for other fire-tested ceiling assemblies.)

fire rating	physical data construction detail	description & test no.	comments	folder reference
2 hrs. (beam 2 hrs.)	 slab wt. 11	PYROFILL Gypsum Concrete Roof Deck poured 2" min thickn over 1/2" SHEETROCK or 1" FIRECODE formbd—Keydeck truss tee—Keydeck reinf mesh—UL Des P676 (f)	Protection of primary steel required. Fire rating based on 8' max. beam spacing	SA-305
2 hrs. (beam 2 hrs.)	 slab wt. 8	THERMOFILL Gypsum Concrete Roof Deck poured 2" min thickn over 1" to 1 1/2" FIRECODE formbd—Keydeck truss tee—Keydeck reinf mesh—UL Des P677 (f)	Protection of primary steel required. Fire rating based on 7' max. beam spacing	SA-305
2 hrs.	 slab wt. 11	PYROFILL Gypsum Concrete Roof Deck poured 2" min thickn over 1/2" SHEETROCK or 1" FIRECODE formbd—bulb tee on 12" bar joist—susp AURATONE FIRECODE or AIRSON AURATONE FIRECODE acoust clg panels—UL Des P207 (f)	AIRSON Ceiling includes air control valves in panels. Fire rating based on 4' max. joist spacing. Rating also applies with 1/2" SHEETROCK Formboard on USG sub-purlin	SA-305 SA-905
2 hrs.	 slab wt. 8.2	THERMOFILL Gypsum Concrete Roof Deck poured 2" min thickn over 1/2" SHEETROCK or 1" FIRECODE formbd—bulb tee on 10" bar joist—susp AURATONE FIRECODE or AIRSON AURATONE FIRECODE acoust clg tile—UL Des P002 (f)	AIRSON Ceiling includes air control valves in tile. Fire rating based on 4' max. joist spacing. Rating also applies with 1/2" SHEETROCK Formboard on USG sub-purlin	SA-305 SA-905
2 hrs.	 plank wt. 13	USG Metal Edge Plank Roof Deck—precast gypsum plank clipped or welded to bar joists spaced 7'0" o.c.—3/4" noncomb insul—5/8" AURATONE FIRECODE susp acoust clg panels—UL Des P213 (f)	A good high-strength, long-span dry decking simple to erect	SA-305 SA-306 SA-905
2 hrs.	 plank wt. 13	USG Metal Edge Plank Roof Deck—precast gypsum plank clipped or welded to bar joists spaced 4'0" o.c.—3/4" noncomb insul—USG met fur chan 24" o.c.—5/8" SHEETROCK FIRECODE "C" gypsum panels screw att 12" o.c.—joints exp or fin—UL Des P501 (f)		SA-305 SA-306
noncomb.	 slab wt. 11	PYROFILL or THERMOFILL Gypsum Concrete poured over noncomb formbd—rated noncombustible by NBFU definition—SS-S-118a fed spec	Thickness of fill 2" min.	SA-305

structural fireproofing

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column type	physical data construction detail	description & test no.	comments	folder reference
W14 x228	 1" 2 5/8"	Gypsum Drywall or Veneer Plaster Fireprfg—2 layers 1/2" SHEETROCK FIRECODE "C" panels or 1/2" IMPERIAL FIRECODE "C" gypsum base around col—panels screw att to 158ST5 stl studs at corners—met corner beads—joints fin or 1/16" IMPERIAL plaster over base—UL Des X507 (f)		SA-923
W10 x49	 3 5/8" 2 5/8"	PYROBAR Gypsum Tile & Drywall or Veneer Plaster Fireprfg—2" solid or 3" hol tile around col—tile banded 24" from ea end—contin met angles screw att to bands—1 layer 5/8" SHEETROCK FIRECODE "C" panels or 5/8" IMPERIAL FIRECODE "C" gypsum base screw att to angles—met corner beads—joints fin or 1/16" IMPERIAL plaster over base—UL Des X502 (f)—UL Des X504 (f)	UL Design X504 based on 3" hollow tile	SA-405 SA-923

column fireproofing

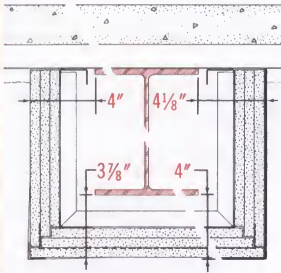
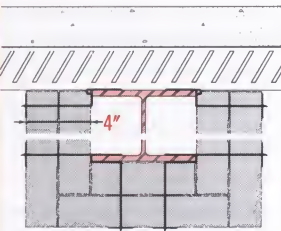
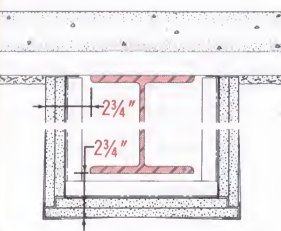
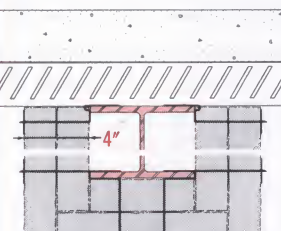
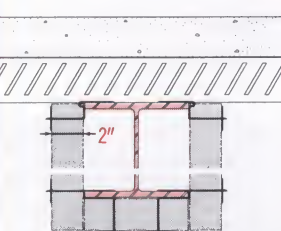
4-HOUR RATED APPLICATIONS

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structural fireproofing

column type	physical data construction detail	description & test no.		comments	folder reference	
column fireproofing						
4-HOUR RATED APPLICATIONS (continued)						
W10 x49		PYROBAR Gypsum Tile & Plaster Fireprfg—2" solid or 3" hollow— $\frac{3}{8}$ " gypsum sand plaster—sanded basecoat & lime putty fin recom—BMS-92 table 40 (f)			SA-405	
W14 x228		THERMAFIBER Mineral Fireprfg—2" fireprfg around col att with $\frac{1}{8}$ " stl wire studs welded to col 24" o.c.—UL Des X202 (f)			Dry assembly; offers excellent thermal insulation for exterior columns	SA-705
3-HOUR RATED APPLICATIONS						
W14 x228		Gypsum Drywall or Veneer Plaster Fireprfg— $\frac{1}{2}$ " SHEETROCK FIRECODE "C" panels or $\frac{1}{2}$ " IMPERIAL FIRECODE "C" gypsum base around col—double layer over ea web face—panels screw att to 158ST5 stl studs at col corners—met corner beads—joints fin or $\frac{1}{16}$ " IMPERIAL plaster over base—UL Des X514 (f)			SA-923	
W10 x49		Gypsum Drywall or Veneer Plaster Fireprfg—3 layers $\frac{1}{2}$ " SHEETROCK FIRECODE "C" panels or $\frac{1}{2}$ " IMPERIAL FIRECODE "C" gypsum base around col—triple layer over ea flange end—inner layers on flange face separ by 158ST5 stl studs & screw att—met beads on corners—joints fin or $\frac{1}{16}$ " IMPERIAL plaster over base—UL Des X515 (f)			SA-923	
W10 x49		THERMAFIBER Mineral Fireprfg—dbl layer 2" fireprfg around col att with flange clips & clinch shields 16" o.c.—UL Des X306 (f)			Dry assembly; offers excellent insulation for exterior columns	SA-705
2-HOUR RATED APPLICATIONS						
W14 x228		Gypsum Drywall or Veneer Plaster Fireprfg— $\frac{1}{2}$ " SHEETROCK FIRECODE "C" panels or $\frac{1}{2}$ " IMPERIAL FIRECODE "C" gypsum base around col—panels screw att to 158ST5 stl studs at col corners—met corner beads—joints fin or $\frac{1}{16}$ " IMPERIAL plaster over base—UL Des X521 (f)			SA-923	
W10 x49		Gypsum Drywall or Veneer Plaster Fireprfg— $\frac{1}{2}$ " SHEETROCK FIRECODE "C" panels or $\frac{1}{2}$ " IMPERIAL FIRECODE "C" gypsum base around col—double layer over ea flange end—double layer on flange faces separ by 158ST5 stl studs & screw att—met beads on corners—joints fin or $\frac{1}{16}$ " IMPERIAL plaster over base—UL Des X518 (f)			SA-923	
Varies		Gypsum Drywall or Veneer Plaster Fireprfg—3 layers $\frac{1}{2}$ " SHEETROCK FIRECODE "C" panels or $\frac{1}{2}$ " IMPERIAL FIRECODE "C" gypsum base around col—triple layer over ea flange end—inner layers on flange face separ by 158ST5 stl studs & screw att—met beads on corners—joints fin or $\frac{1}{16}$ " IMPERIAL plaster over base—UL Des X524 (f)			Rating applies to tapered or constant section prefabricated metal building columns	SA-923
W10 x49		PYROBAR Gypsum Tile Fireprfg—2" solid or 3" hollow—unplastered—BMS-92 table 40 (f)			SA-405	
W10 x49		THERMAFIBER Mineral Fireprfg—2 1/2" fireprfg around col att with flange clips & clinch shields 24" o.c.—UL Des X305 (f)			Dry assembly; offers excellent thermal insulation for exterior columns	SA-705

(For other tested fireproofing assemblies, see U.S.G. Technical Bulletins: CS-6 Metal-Framed Metal Lath and Plaster Systems; PM-150 Gypsum Lath Column Fireproofing.)

fire rating	beam type	physical data construction detail	description & test no.	comments	folder reference
beam fireproofing					
3 hrs. (beam only)	W8 X24		Gypsum Drywall or Veneer Plaster Caged Beam Fireprfg—158CR5 USG stl run chan brackets 24" o.c.— $\frac{3}{8}$ " x $1\frac{1}{2}$ " corner angles att to brackets—3 layers $\frac{5}{8}$ " SHEETROCK FIRECODE gypsum panels or IMPERIAL FIRECODE gypsum base att with Type S screws—1" 20-ga. hex mesh on bottom over middle layer—met beads on corners—joints fin or $\frac{1}{16}$ " IMPERIAL plaster over base— $2\frac{1}{2}$ " conc deck on fluted stl flr—UL Des N505 (f)	Extends drywall and veneer plaster use to beam protection. Fire rating for restrained assembly; 2-hr. rating for unrestrained assembly	SA-912 SA-923 13
3 hrs.	W8 X24		THERMAFIBER Mineral Fireprfg—dbl layer 2" fireprfg around beam att with flange clips & clinch shields 12" o.c.— $2\frac{1}{2}$ " conc deck on cellular stl flr—UL Des N304 (f)	Fire rating for restrained beam; unrestrained beam rating is 2 hrs.	SA-705 14
2 hrs. (beam only)	W8 X24		Gypsum Drywall Caged Beam Fireprfg—158CR5 USG stl run chan brackets 24" o.c.— $1\frac{1}{8}$ " x $\frac{3}{4}$ " corner angles att to chan brackets—dbl layer $\frac{5}{8}$ " SHEETROCK FIRECODE gypsum panels att with Type S screws—met beads on corners—joints fin— $2\frac{1}{2}$ " conc deck on fluted stl flr—UL Des N501 (f)—UL Des N502 (f)	Design N502 based on $1\frac{1}{8}$ " steel runner for corner angles & coped brackets	SA-923 15
2 hrs.	W8 X13		THERMAFIBER Mineral Fireprfg—dbl layer 2" fireprfg around beam att with flange clips & clinch shields 12" o.c.— $3\frac{1}{4}$ " conc on fluted steel flr—UL Des D915 (f)	Fire rating is $1\frac{1}{2}$ hrs. with cellular steel floor units	SA-705 16
2 hrs.	W8 X24		THERMAFIBER Mineral Fireprfg—2" fireprfg around beam att with flange clips & clinch shields 12" o.c.— $2\frac{1}{2}$ " conc on fluted stl flr—UL Des N304 (f)—UL Des N305 (f)	Fire rating is $1\frac{1}{2}$ hrs. with cellular steel floor units	SA-705 17

(See other System Folders Nos. SA-309, SA-905, SA-912, SA-923 and U.S.G. Technical Bulletin CS-6 for protection of beams, girders, and trusses by ceiling constructions.)

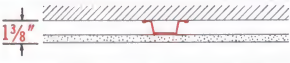
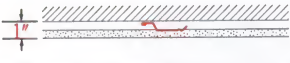

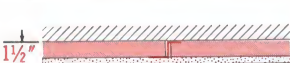



physical data
construction detail

description & test no.

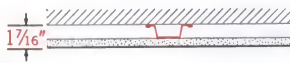
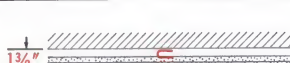



comments

folder
reference

DRYWALL ASSEMBLIES

1		USG Metal Furring Channels 24" o.c., 1/2" Foil-Back SHEETROCK Panels screw attached, U.S.G. Joint Treatment	Direct attachment by furring does not isolate surface from structural stresses. No limiting height	SA-923
2		RC-1 Furring Channels 24" o.c., 1/2" Foil-Back SHEETROCK Panels screw attached, U.S.G. Joint Treatment	RC-1 channel reduces transfer of structural stresses to surface membrane	SA-924
3		Wood furring strips 16" o.c., 1/2" Foil-Back SHEETROCK Panels, U.S.G. Joint Treatment	Surface not isolated from structural stresses; good vapor barrier	SA-924
4		1" THERMAFIBER Z-Furring Insulation, USG Z-Furring Channels appl vert 24" o.c., 1/2" SHEETROCK gypsum panels screw attached to channels, U.S.G. Joint Treatment	Noncombustible system with mineral fiber insulation	SA-923
5		USG Steel Studs 24" o.c., 1/2" Foil-Back SHEETROCK Panels screw attached, U.S.G. Joint Treatment	Free standing; allows for pipe chase clearance; good vapor barrier	SA-923
6		1" USG Gypsum Coreboard set in metal angle floor and ceiling runners, 1/2" SHEETROCK gypsum panels laminated to coreboard, U.S.G. Joint Treatment	Free standing; allows for pipe chase clearance; minimizes shadowing and spotting	SA-923
7		USG 3/4" Z-splines appl vert 24" o.c., kerfed ULTRAWALL Gypsum Panels engage concealed spline	Provides exterior wall surfacing having same appearance as movable partitions	SA-1020

PLASTERED ASSEMBLIES

8		USG Metal Furring Channels 16" o.c., 1/2" Foil-Back IMPERIAL gypsum base screw attached, 1/16" IMPERIAL plaster finish	May be attached direct or additionally furred out on 3/4" horiz. cold-rolled channels; good vapor barrier	SA-912
9		R-5 Resilient Clips 16" o.c., Foil-Back ROCKLATH plasterbase and BRIDJOINT Clips, 1/2" sanded basecoat, lime putty finish	Resiliency of the R-5 Clip will reduce the transfer of structural stresses to surface membrane	SA-405
10		1" THERMAFIBER Z-Furring Insulation, USG Z-Furring Channels appl vert 24" o.c., 1/2" IMPERIAL gypsum base screw attached to channels, 1/16" IMPERIAL plaster finish	Noncombustible system with mineral fiber insulation	SA-912
11		TRUSSTEEL Studs 16" o.c. cross braced 4' o.c. on back chord, 3/8" Foil-Back ROCKLATH plaster base attached with TL-1 Clips, 1/2" sanded basecoat plaster, 1/16" lime putty finish	Free standing; allows for pipe chase clearance; good vapor barrier	SA-915
12		TRUSSTEEL Studs 24" o.c., RC-1 chan spaced 16" o.c. attached with 3/4" Type T screws, Foil-Back IMPERIAL gypsum base attached with 1" Type S screws, 1/16" IMPERIAL plaster finish	Free standing; allows for pipe chase clearance; good vapor barrier	SA-915

OTHER ASSEMBLIES

13		USG Exterior Curtain Wall—358ST10 steel studs 16" o.c.—1/2" gypsum sheathing—self-furring metal lath—1" cement-lime stucco exterior—3" THERMAFIBER metal stud blankets between studs—3/8" Foil-Back SHEETROCK FIRECODE "C" gypsum panels or IMPERIAL FIRECODE "C" gypsum base and 1/16" IMPERIAL plaster interior—T-4851-OSU (f)	Assembly described offers 2-hour fire resistance. Systems offer wide selection of exterior and interior surfaces, utilizing conventional materials (1)	SA-805
14		THERMAFIBER Curtain Wall Insulation	Excellent insulation; good vapor barrier. Products offer fire protection up to 5 hours for aluminum spandrel facings	SA-705

(1) For data on truss-type framing used with these systems, see U.S.G. Technical Bulletin PM-149 on "TRUSSTEEL Stud Curtain Wall Systems."

title	folder reference
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Plasters, Bases & Accessories	SA-917
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Gypsum and metal lath; gypsum partition tile; corner and casing beads, metal and plastic trim, control joints, clips, runners, steel studs, furring channels, brackets; basecoat, finish coat, high-strength veneer, gauging plasters; finishing limes; general lathing and plastering specs.

Gypsum Panels & Accessories	SA-927
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Gypsum panels, coreboard; corner beads, metal and plastic trim, steel studs, channel, runners, brackets, control joint; screws and adhesives; reinforcing tape and joint compounds; erection specs for board and joint treatment.

TEXTONE Gypsum Panels	SA-928
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Predecorated vinyl-faced gypsum panels and mouldings; application specs.

Sound Control Ceilings	SA-905
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Mineral tile and panels; air distribution system components; acoustical space units; gypsum & asbestos ceiling board; metal accessories; installation specs.

CDI Environmental Ceilings	SA-907
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Mineral tile and panels for coffered, vaulted and flat ceilings with integrated lighting and air distribution components.

Insulation Products	SA-705
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Insulating and sound attenuation blankets; safing and curtain wall insulation; mineral felt fireproofing; blowing and pouring wool; values; application specs.

title	folder reference
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Asphalt Roofing Products	SA-710
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235-lb. to 300-lb. strip and specialty shingles; self-sealing shingles; descriptions of 25 built-up roofing assemblies; UL label classifications; inspection and installation specs. (Western region only).

Paint Products	SA-933
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Interior flats, enamels; exterior and floor paints; masonry coatings; stains, varnishes; texture finishes; sealers, primers, undercoat, block filler; epoxy and metal coatings; industrial finishes; preparation and application specs.

KEWANEE Steel Doors & Frames	KMD-S
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Standard and labeled steel doors, one- and three-piece frames, custom-fabricated stick systems, details and specs.

ACCURATE Toilet Compartments	SA-1070
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Metal toilet compartments, urinal and entrance screens, shower cabinets, dressing enclosures, accessories, details and specs.

GRATE-X Gratings	SA-505
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Expanded metal grating for platforms and walkways; stair treads; load data; details and installation specs.

GRIP STRUT Gratings	SA-506
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Reticulated metal grating for platforms and walkways; stair treads; load data and installation specs.

GLOBE-STRUT Channel Framing	SA-1510
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Metal channel supports for mechanical and electrical installations; surface raceways; concrete inserts; specs.

U.S.G. products / specification standards

The listings below contain existing Standard Specifications, classified as Federal, Army, Navy, Treasury, etc., which apply to U.S.G. materials. Where ASTM, local codes, etc. require product variance, consult your U.S.G. representative. The symbol "WC" after a product listing denotes that U.S.G. is on the government list of those companies willing to certify that their products meet that specification. See pertinent U.S.G. Product Catalog for additional information.

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PRODUCT	FEDERAL SPECIFICATION	ASTM DESIGNATION
PLASTER		
RED TOP* gypsum plaster (WC)	SS-P-00402B type II	C28—gypsum neat plaster
RED TOP two-purpose plaster	SS-P-00402B type II	C28—gypsum neat plaster
RED TOP wood fiber plaster (WC)	SS-P-00402B type III	C28—gypsum wood fiber
STRUCTO-LITE* plaster	SS-P-00402B type I	C28—gypsum ready mix plaster
perlite aggregate	non-applicable	C35
RED TOP gauging plaster (WC)	SS-P-00402B type V	C28—gypsum gauging for finish coat
RED TOP keenes cement regular (WC) quick trowel	SS-C-161A type I SS-C-161A type II	C61 C61
STRUCTO-GAUGE* plaster	SS-P-00402B type V with added req. of dry compressive strength not less than 5000 psi (neat)	C28—gypsum gauging for finish coat
STRUCTO-BASE* plaster	SS-P-00402B type II with added req. of dry compressive strength not less than 2800 psi.	C28—gypsum neat plaster
IMPERIAL* plaster	non-applicable	C587—gypsum veneer plaster

GYPSUM LATHING

ROCKLATH* plaster base— $\frac{3}{8}$ " & $\frac{1}{2}$ "	SS-L-30D type I, grades R and X, class I, forms (a) (b) and (c), styles 1 and 5	C37
IMPERIAL gypsum base— $\frac{1}{2}$ " & $\frac{3}{8}$ "	SS-L-30D type I, grades R and X, class I, style 1	C588
USG® R.H. base— $\frac{1}{2}$ " & $\frac{3}{8}$ "	SS-L-30D type I, grades R and X, class I, style 1 (in type III size)	

PRODUCT	FEDERAL SPECIFICATION	ASTM DESIGNATION
LIME		
RED TOP and GRAND PRIZE* finish lime	SS-L-351B type F (including added requirement of not more than 8% unhydrated oxides)	C6 type N
IVORY* finish lime		C206 type S
RED TOP masons hydrate	SS-L-351B type M (including added requirement of not more than 8% unhydrated oxides)	C207 type N
MORTASEAL* masons lime		C207 type S
BONDCRETE* masons lime		
RED TOP quicklime	—	C5

METAL LATHING

Bases, metal: (for) plaster, lath and stucco constr. (WC)	QQ-L-101C	non-applicable
3.4# galv. diamond mesh lath, 2.5# and 3.4# c.a. ptd. & poly-backed; $\frac{1}{8}$ " 4-mesh z-rib lath 2.75# and 3.4#; $\frac{3}{8}$ " rib lath 3.4# and 4.0#	class 3 (flat dia. mesh) class 3 (self furring dia. mesh) class 4 ($\frac{1}{4}$ " flat rib) class 1 ($\frac{3}{8}$ " rib)	
Hanger wire—tie wire	QQ-W-461g finish 5 class 1 (1006 type steel)	

GYPSUM PANELS

SHEETROCK* (plain) (foil-back)	SS-L-30D	C36
SHEETROCK sq. edge (WC)	type III grade R class 1	C36
SHEETROCK tap. edge (WC)	type III grade R class 1	C36
SHEETROCK bev. edge (WC)	type III grade R class 1	C36
$\frac{5}{8}$ " SHEETROCK FIRECODE*	type III grade X class 1	C36
SHEETROCK FIRECODE "C"	type III grade X class 1	C36
TEXTONE vinyl-covered	type III grade R or X cl. 3	C36
SHEETROCK W/R water-resist.	type VII grade W or X class 2	C630

(continued)

U.S.G. products / specification standards (continued)

PRODUCT	FEDERAL SPECIFICATION	ASTM DESIGNATION
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PARTITION TILE

PYROBAR* Gypsum Tile (WC)	SS-T-316C	C52
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SHEATHING

USG gypsum sheathing	SS-L-30D type II grade W cl. 2	C79
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JOINT TREATMENT

USG & DURABOND* joint compounds	SS-J-570a type I	C474 & C475
PERF-A-TAPE* reinf. tape	SS-J-570a type II	
Compound & tape combined	SS-J-570a type III	

DRYWALL ACCESSORIES

USG electro-galv. studs and runners, furring channels, RC-1 resilient channels	QQS-698	C645 (except resilient channels)
USG hot-dip galv. studs, runners, furring channels, RC-1 resilient channels	QQS-775d	A525 C645 (except resilient channels)
Metal corner beads and trim	QQS-775d class E	A525
USG brand screws	—	C646
DURABOND Adhesives 200, 300, Multi-Purpose	—	C557

ACOUSTICAL UNITS—PREFABRICATED

ACOUSTONE* "F" MOTIFD* ACOUSTONE AIRSON* ACOUSTONE AURATONE*	SS-S-118a (GSA-FSS) type III class 25	E84
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METAL GRATING

GRATE-X grating	MIL-G-18015s, MIL-M-17194c & RR-G-1602	non-applicable
GRIP STRUT grating selected styles	RR-G-1602 & MIL-G-18015s	non-applicable

INSULATION BOARDS

USG sound deadening board wood fiber mineral fiber	LLL-I-535a class a	C208 class A noncomb. class A
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PRODUCT	FEDERAL SPECIFICATION	ASTM DESIGNATION
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MINERAL FIBER INSULATION

THERMAFIBER* open face batt (membrane facing one side) blanket batt (with enveloping membranes) blowing wool pouring wool sound attenuation blanket	HH-I-521E type II, III HH-I-521E type II, III HH-I-1030a type I cl. A HH-I-1030a type II cl. A HH-I-521E type I	C665 C665 none none C665
THERMAFIBER safing insulation, curtain wall insulation, mineral felt fireproofing	HH-I-521E type I HH-I-558B Form A, classes 1 & 2	C665

ROOFING

FORTIFIED* shingles	SS-S-300b type II	D225 type II
SEALCO* shingles	SS-S-300b type III	D225 type I
FIRECODE XX shingles	SS-S-294a	
USG asphalt-sat. felts	HH-R-595b type II cl. I & II	D226
USG asbestos felt	HH-R-590A type I class A	D250
ADAMANT* cap roll roofing	SS-R-630D	D249
SEL-VI-LAP* roll roofing	SS-R-630D	D371
IMPERIAL roll roofing	SS-R-501d class B	D224
SUPER-TITE* roofing asphalt standard grade	SS-A-666d type II	D312 type II

PRODUCT	FEDERAL SPECIFICATION	ASTM DESIGNATION	OTHER NATIONAL
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GYPSUM ROOF DECKS

PYROFILL* & THERMOFILL* gypsum concrete	(C.E. 219)	C317 material	ANSI A59-1
SHEETROCK formboards	SS-L-30D type V	C318 material	—
USG min. fiber formboards	SS-S-118a cl. 25	—	—
USG 1/4" asbestos formboard sheets, flat	SS-B-755a type u only	—	—
USG 2" metal edge gypsum plank—precast	SS-T-315B type I	C377 type 2	—

*Reg. U.S. Pat. & Tm. Off.

NOTE: All products described here may not be available in all geographic markets. Consult your local U.S.G. sales office or representative for information.

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